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**Revised Catalogue of the DIURNAL LEPIDOPTERA of  
America North of Mexico.**

BY W. H. EDWARDS.

The Catalogue of the Diurnal Lepidoptera of America north of Mexico was published in 1877, and so much new material has since then accumulated,—descriptions of species, or of preparatory stages, or relation of habits, or mention of localities, that a Revision has seemed urgent. In preparing the present edition I have greatly enlarged the references, and have added an Index of species. I have followed the rules which were set forth in the Advertisement of the Catalogue, dropping all species which I believe to have been improperly credited to this fauna, crediting the genus names to the authors who first defined them, and in the general arrangement, while adopting the families and sub-families of some of the later systematists, adhering mainly to the order of Doubleday and his associates in the "Genera of Diurnal Lepidoptera." In the Hesperidæ I have followed Dr. Adolph Speyer, as in the Catalogue. Since 1877 this author has still further investigated the same family, and so far as concerns the American species, I have availed myself of most of his conclusions.

Nearly every North American species of Butterfly is represented in my collection, but where any are wanting I have in most cases been able to examine them elsewhere. With this aid I have carefully gone over the entire list of species, and their standing is given herein according to my best judgment.

W. H. EDWARDS.

*Coalburgh, W. Va., May 15, 1884.*

## NAMES OF AUTHORS AND WORKS QUOTED, AND EXPLANATION OF ABBREVIATIONS USED.

- 
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- Am. Nat.*—American Naturalist.
- Ann. N. Y. Lyc. N. Hist.*—Annals of the New York Lyceum of Natural History.
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- App. Ross Exp.*—Appendix to Narrative of Ross' second voyage, 1835.
- Aaron, E. M.*
- Ashm.*—Ashmead, W. H. Orange Insects, 1880.
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- Bd.*—Boisduval, Dr. J. A.
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- Sp. Gen.*—Species generale des Lépidoptères. Vol. I, Paris, 1836.
- Lep. de la Cala.*—Lépidoptères de la Californie, 1869.
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- Bean, Thomas E.*
- Behr. Dr. Hermann.*
- Behrens, J. C.*
- Birch.*—Birchall, E.
- Boll, Jacob.*
- Bost. Jl. N. Hist.*—Boston Journal of Natural History.
- Br. Bull.*—Bulletin of the Brooklyn Entomological Society.
- Bull. Buff.*—Bulletin of the Buffalo Society of Natural Sciences.
- Bunker, Robert.*
- Burgess, E.*
- Butl.*—Butler, A. G.
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- Cat. Satyr. Br. Mus.*—Catalogue of the Satyridæ in the collection of the British Museum, London, 1868.
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- Cat. Mus. Petr.*—Enumeratio Corporum Animalium Musei Imperialis Academiae Scientiarum Petropolitanae. Part I, 1855–63.
- Caulf.*—Caulfield, F. B.
- Chapm.*—Chapman, Dr. A. W.
- Corr. Blatt. Regensb.*—Correspondenz blatt für Sammler von Insecten etc., by Herrich-Schaeffer, 1860–61.

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*Doubl.*—Doubleday, Edward.

*Doubl.-Hew.*—Doubleday and Hewitson.

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*D' Urb.*—D'Urban, W. S.

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*But.*—The Butterflies of North America. Vol. I, 1868–72; Vol. II, 1874–84.

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Schomb. Reise.

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*French. G. H.*

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- Geyer, C.*  
*Godt.*—Godart; J. B.  
*Gosse, P. H.*  
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*Er. But.*—Illustrations of New Species of Exotic Butterflies, London, 1851-71.  
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*Samml. Ex. Schmett.*—Sammlung Exotischer Schmetterlinge, 1816--24.  
*Zutr. Ex. Schmett.*—Zutrage zur Sammlung Exotischer Schmetterlinge, 1818--25.  
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*Latr.*—Latreille, P. A.  
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*Pr. Am. Ass. A. Sci.*—Proceedings of the American Association for the Advancement of Science.  
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*Pr. Cal. Ac. N. Sci.*—Proceedings of the California Academy of Natural Sciences.  
*Pr. Dav. Ac. N. Sci.*—Proceedings of the Davenport Academy of Natural Sciences.  
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*Pr. Ess. Ins.*—Proceedings of the Essex Institute.  
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*Ramb.*—Rambur, J. P.  
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*Reak.*—Reakirt, T.  
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 in charge of Lieut. G. M. Wheeler, U.S.A., Vol. V, 1875.  
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*Riley, C. V.*  
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 Lieut. E. H. Ruffner, U.S.A. Insects, by H. Strecker.  
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*But.*—Butterflies, New York, 1881.

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*Sm.-Abb.*—Smith and Abbot. Lepidopterous Insects of Georgia, Vols. I, II, London, 1797.

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*Stoll, C.*

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*Str.*—Strecker, H.

*Lep.*—Lepidoptera. Parts I—XV, Reading, Pa., 1872–78.

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*Swainson Wm.*

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*Thunb.*—Thunberg, C. P.

*Diss. Ent. Suec.*—Dissertatio Entomologiæ sistens Insecta Suecica. Upsal, 1784–95.

*Tr. A. E. Soc.*—Transactions of the American Entomological Society.

*Tr. Ac. Sci. St. Louis.*—Transactions of the Academy of Natural Sciences St. Louis.

*Tr. Chic. Ac. N. Sci.*—Transactions of the Chicago Academy of Natural Sciences.

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*Walsh, B. D.*

*West.*—Westwood, J. O.

*West.-Hew.*—(Doubleday) Westwood and Hewitson.  
The Genera of Diurnal Lepidoptera.

*Whitn.*—Whitney, C. P.

*Wien. Ent. Monat.*—Wiener Entomologische Monatschrift.

*Wittfeld, Dr. W.*

*Worth.*—Worthington, C. E.

References are to volume and page.

Signs used.—♂, male; ♀, female.

\* mention of preparatory stages, or habits of butterfly.

† species unknown to me, and perhaps not properly classified.

The heavy lines indicate sub-groups.

*Aberr.*—Aberration, sport.

*Auct.*—On authority of.

*Coll.*—Collection of.

*By.*—Taken by.

*Dim.*—Dimorphic.

## NAMES OF STATES, ETC.

*Antic.*—Anticosti.

*Ark.*—Arkansas.

*Ariz.*—Arizona.

*Atl.*—Atlantic.

*Br. Am.*—British America.

*Br. Col.*—British Columbia.

*Cal.*—California.

*Col.*—Colorado.

*Conn.*—Connecticut.

*Dak.*—Dakota.

*Ga.*—Georgia.

*Gulf. St.*—Gulf States.

*Ia.*—Iowa.

*Ill.*—Illinois.

*Ind.*—Indiana.

*Ind. Terr.*—Indian Territory.

*Kans.*—Kansas.

*Ky.*—Kentucky.

*Labr.*—Labrador.

*L. I.*—Long Island.

*Mass.*—Massachusetts.

*Md.*—Maryland.

*Me.*—Maine.

*Mex.*—Mexico.

*Mich.*—Michigan.

*Minn.*—Minnesota.

*Miss.*—Mississippi.

*Mo.*—Missouri.

*Mont.*—Montana.

*N. B.*—New Brunswick.

*N. C.*—North Carolina.

*N. E.*—New England.

*Neb.*—Nebraska.

*N. F'land.*—Newfoundland.

*Nev.*—Nevada.

*N. H.*—New Hampshire.

*N. J.*—New Jersey.

*N. Mex.*—New Mexico.

*N. Sco.*—Nova Scotia.

*N. Y.*—New York.

*Ont.*—Ontario.

*Oreg.*—Oregon.

*Pa.*—Pennsylvania.

*Pac.*—Pacific.

*Queb.*—Quebec.

*San Berno.*—San Bernardino.

*Saskatch.*—Saskatchewan.

*St.*—States.

*Tenn.*—Tennessee.

*U. S.*—United States.

*Va.*—Virginia.

*Vanc. Isld.*—Vancouver's Island.

*W. Ind.*—West Indies.

*Wis.*—Wisconsin.

*W. Terr.*—Washington Territory.

*W. Va.*—West Virginia.



## CATALOGUE.

## PAPILIONIDÆ.

## PAPILIONINÆ.

## PAPILIO, Linnaeus.

## Group I.

1. **Ajax**, Linn., Syst. Nat., 1, 2, 750, 1767; Grub., Jen. Zeitschr. Nat., 17, 473, pl. 7, figs. 16-19, 1884 \*.

Winter form WALSHII, Edw., But., 1, 1, pl. 1, 1871 \*.

*Marcellus*, Cram., 2, pl. 98, figs. F. G. 1779.

var. ABBOTII, Edw., l. c., pl. 1, fig. 6, 1871; Mundt, Can. Ent., 15, 87, 1883.

*Ajax*, Sm.-Abb., pl. 4, 1797.

Winter form TELAMONIDES, Feld., Reise Nov., Lep., 1, 60, 1865, id., Sp. Lep., 59, 1864; Edw., But., 1, 5, pl. 2, 1871 \*.

*Ajax*, Bd.-Lec., pl. 1, 1833.

Summer form MARCELLUS, Bd., 8, pl. 2, 1833; Edw., But., 1, 7, pl. 3, 1871 \*.

*Ajax*, Esp., Eur. Schmiett., 1, pl. 51, 1780. (For experiments upon the effect of cold applied to chrysalids of the forms of *Ajax*, see Edw., Can. Ent., 7, 236, 1875; also Psyche, 3, pp. 3 and 17, 1880).

*Hab.*—Pa. to Texas; Miss. Valley; occasl. Hamilton, Ont. (by Moffat.)

## Group II.

2. **Philenor**, Linn., Mant., 535, 1771; Sm.-Abb., pl. 3, 1797 \*; Say, Am. Ent., 1, pl. 1, 1824; Bd.-Lec., 29, pl. 11, 1833 \*; Bd., Sp. Gen., 1, 324, 1836; Riley, 3d Mo. Ent. Rep., 116, 1870 \*; H. Edw., Pr. Cal. Ac. N. Sci., 161, 1873 \*; Edw., Can. Ent., 13, 9, 1881 \*; Grub., Jen. Zeitschr. Nat., 17, 474, pl. 7, figs. 20-42, 1884 \*.

*Astinous*, Dru., 1, pl. 11, 1773; Cram., 3, 208, figs. A. B. 1872,

*Hab.*—U. S. generally; Ont.

## Group III.

3. **Machaon**, var. **ALASKA**, Scud., Pr. Bost. Soc. N. H., 12, 45, 1869; Edw., Can. Ent., 13, 63, 1881; id., Papilio, 2, 74, 1882; 3, 50, 1883; id., But., 2, pl. 14, 1884 \*.  
*Hab.*—Oreg.; Br. Am.; Alaska.
4. **Oregonia**, Edw., But., 2, pl. 7, 1880, l. c., 2, pl. 14, 1884 \*; Hagen, Papilio, 2, 152, et seq. 1882; id., Pr. Bost. Soc. N. H., 22, 105, 1882; Edw., Papilio, 3, 45, et seq. 1883.  
*Hippocrates* var. *Oregonia*, Edw., Tr. A. E. Soc., 5, 208, 1876.  
*Hab.*—Oreg.; W. Terr.; Vanc. Island.
5. **Zolicaon**, Bd., Ann. Soc. Ent. Fr., 2, 10, 281, 1852; Edw., But., 2, pl. 6, 1875 \*; id., l. c., 2, pl. 14, 1884 \*; H. Edw., Pr. Cal. Ac. N. Sci., 5, 163, 1873 \*; Str., Lep., pl. 6, fig. 3, ♀, 1873; Hag., Papilio, 2, 152, et seq. 1882; id., Pr. Bost. Soc. N. H., 22, 105, et seq. 1882; Edw., Papilio, 3, 45, et seq. 1883.  
*Hab.*—Oreg. to Ariz.; Mont.; Col.
6. **Americus**, Koll., Denkschr. Ak. Wiss. Wien, Math. Nat. Cl., 1, 354, 1850; Edw., Papilio, 3, 55, 1883.  
*Sadalus*, Luc., Rev. Zool., 1852, 133, pl. 10.  
*Hab.*—Ariz.
7. **Nitra**, Edw., Papilio, 3, 162, 1883.  
*Hab.*—Mont.
8. **Indra**, Reak., Pr. E. Soc. Phil., 6, 123, 1866; Edw., But., 2, pl. 9, 1878; Str., Lep., pl. 2, fig. 1, ♂, 1873; Putn., Pr. Dav. Ac. N. Sci., 1, pl. 35, ♀, 1876.  
*Hab.*—Col.; Nev.; Cala.
9. **Pergamus**, H. Edw., Pr. Cal. Ac. N. Sci., 5, 423, 1874.  
*Hab.*—So. Cala.
10. **Brevicauda**, Saund., in Packard's Guide, 245, 1869; Edw., But., 2, pl. 8, 1875, pl. 8 B, 1880 \*.  
*Anticostiensis*, Str., Lep., pl. 2, fig. 2, ♀, 1873.  
*Hab.*—N. F'land.; Antic.; Labr.; Queb.
11. **Bairdii**, Edw., ♂, Pr. E. Soc. Phil., 6, 200, 1869; Mead, Rep. Wheeler Exp., 5, 740, 1875; Edw., ♀, Can. Ent., XI, 83, 1879; id., But., 2, pl. 10, 1880.  
*Asterias*, var. *Utahensis*, Str., Cat., p. 72, 1878.  
*Hab.*—Ariz.

12. **Asterias**, Fab., Mant., 2, 1787; Bd.-Lec., 14, pl. 4, 1833 \*; Bd. Sp. Gen., 1, 332, 1836; Harr., 263, pl. 4, 1862 \*; Lintn., Pr. E. Soc. Phil., 3, 51, 1864 \*; H. Edw., Pr. Cal. Ac. N. Sci., 164, 1873 \*; Edw., But., 2, pl. 14, 1884 \*; Grub., Jen. Zeitschr. Nat., 17, 467, pl. 7, figs. 1-5, 1884 \*; Fern. But. Me., 21, 1884 \*; bi-form, Edw., But., 2, pl. 11.

aberr. CALVERLEYII, Gro., Pr. E. Soc. Phil., 2, 441, pl. 10, ♂, 1864; Mead, Am. Nat., 3, 332, ♀, 1869; Edw., l. c., 2, pl. 11, ♂ ♀, 1877.

var. ASTEROIDES, Reak., (not Str.) Pr. Ac. N. Sci. Phil., 43, 1866.

*Troilus*, Sm.-Abb., pl. 1, 1797.

*Hab.*—Atl. to Pac.; U. S. generally; Ont.; Queb.

#### Group IV.

13. **Troilus**, Linn., Mus. Lud. Ulr., 187, 1764; Bd.-Lec., 26, pl. 10, 1833 \*; Bd. Sp. Gen., 1, 334, 1836; Harr., 266, 1862 \*; Saund., Can. Ent., 1, 73, 1869 \*; Grub., Jen. Zeitschr. Nat., 17, 471, pl. 7, figs. 12-15, 1884 \*.

*Ilioneus*, Sm.-Abb., pl. 2, 1797; Feld., Verh. Zool. Bot. Ges., 14, 315, 364, 1864; id., Sp. Lep., 76, 1864.

*Hab.*—Atl., Southn., Westn. States.

14. **Palamedes**, Dru., 1, 19, 1773; Cram., 1, 93, fig. A. B., 1779; *Calchas*, Fab., Syst. Ent., 453, 1775; Bd.-Lec., 17, pl. 5, 1833 \*; id., Spec. Gen., 1, 373, 1836; Edw., Can. Ent., 13, 119, 1881 \*.

*Hab.*—Gulf States; Fla. to Va.

#### Group V.

15. **Turnus**, Linn., Mant., 536, 1771; Say, Am. Ent., pl. 40, 1828; Bd.-Lec., 19, pl. 6, 7, 1833 \*; Harr., 268, figs. 97, 98, 1862 \*; Saund., Can. Ent., 1, 74, 1869; 6, 2, 1874 \*; Edw., But., 2, pl. 3, 4, 5, 1877 \*; Grub., Jen. Zeitschr. Nat., 17, 470, pl. 7, figs. 7-11, 1884 \*; Fern., But. Me., 23, 1884 \*.

*Hab.*—Atl. St.; Miss. Valley to Texas; Queb.; Ont.; N. F'land.; Br. Am.; Alaska.

dim. form, ♀, GLAUCUS, Linn., Mus. Lud. Ulr., 190, 1764; Bd.-Lec., pl. 8, 9, 1833; Rid., Pr. E. Soc. Phil., 1, 266, 1862; Walsh, l. c., 1, 349, 1862; Edw., But., 2, pl. 3, 4, 1877; bi-form, Edw., l. c., pl. 5, cit.; interm. form, id., pl. 5, cit.

*Hab.*—New York and South and West; Fort Mcleod, Br. Am. (auct. Geddes.)

16. **Eurymedon**, Bd., Ann. Soc. Ent. Fr., 2, 10, 280, 1852; Scud., Pr. Bost. Soc. N. Hist., 13, 1870 \*; Edw., But., 2, pl. 1, 1874 \*; H. Edw., Pr. Cal. Ac. N. Sci., 5, 164, 1873 \*; Str., Lep., pl. 4, fig. 1, ♂, 1873; Mead, Psyche, 2, 180, 1878 \*.  
var. **ALBANUS**, Feld., Reise Nov. Lep., 1, 93, 1865; H. Edw., Papilio, 2, 122, 1882.  
*Hab.*—Cal. to Br. Col.; Ariz. to Mont.; Br. Am. (auct. Geddes.)
17. **Rutulus**, Bd., Ann. Soc. Ent. Fr., 2, 10, 279, 1852; H. Edw., Pr. Cal. Ac. N. Sci., 5, 165, 1873 \*; id., Papilio, 2, 112, 1882 \*; Mead, Psyche 2, 180, 1878 \*; Hagen, Papilio, 2, 160, 1882; Edw., Papilio, 3, 2, 1883; id., But., 2, text, pl. 12, 13, 1884 \*.  
*Hab.*—Pac. States; Br. Col.; Col. to Mont.  
var. **ARIZONENSIS**, Edw., Papilio, 3, 4, 1883; id., But., 2, pl. 13, 1884.  
*Hab.*—Ariz.; N. Mex.; Col.
18. **Daunus**, Bd., Sp. Gen., 1, 342, 1836; Rid., Pr. E. Soc. Phil., 1, 278, fig. 2, 1862; Edw., But., 2, pl. 2, 1874; H. Edw., Pr. Cal. Ac. N. Sci., 5, 325, 1873 \*; Mead, Rep. Wheeler Exp., 5, 741, 1875; Str., Lep., pl. 6, figs. 1, 2, 1873; Edw., Papilio, 3, 2, 1883 \*.  
*Hab.*—Ariz. to Mont.; Utah; Nev.; Oreg.; Mex.
19. **Pilumnus**, Bd., Sp. Gen., 1, 340, 1836; Mén., Cat. Mus. Petr., 2, 110, pl. 7, fig. 2, 1857; Str., Lep., pl. 2, fig. 3, ♂, 1873.  
*Hab.*—Ariz.; Mex.

## Group VI.

20. **Cresphontes**, Cram., 2, 165 A, 166 B, 1779.  
*Thoas*, var. *Cresphontes*, Bd., Sp. Gen., 1, 355, 1836; *Thoas*, Bd.-Lec., 31, pl. 12, 13, 1833 \*; Saund., Can. Ent., 10, 48, 1878 \*; Boll., l. c., 10, 154, 1878 \*; French, l. c., 13, 177, 1881 \*; Ashm., Orange Ins., 47, 1880 \*; Mundt, Papilio, 3, 25, 1883.  
*Hab.*—Southn and Westn St.; is moving east and north; Ohio; W. Va.; Mich.; N. Y.; Conn.; Ont.; Queb.; St. Johns, N. B.
21. **Thoas**, Linn., Mant., 536, 1771; Dru., 1, pl. 22, 1773; Cram., 2, 167, figs. A. B., 1779; Bd., Sp. Gen., 1, 355, 1836.  
*Hab.*—So. Ariz. (by Morrison); S. W. Texas (in coll. Aaron); Mex.

## Group VII.

22. **Polydamas**, Linn., Mus. Lud. Ulr., 192, 1764; Dru., 1, 17, 1773; Cram., 3, 211, figs. D. E., 1782; Bd. Spec. Gen., 1, 321, 1836; Bd.-Lec., 37, pl. 15, 1833; Morr., 4, 1862.

*Hab.*—Indian River, Fla. (by Wittfeld); Cuba; Mex.

**PARNASSIUS**, Latreille.

23. **Clodius**, Mén., Cat. Mus. Petr., 1, 73, 1855; Edw., But., 1, 18, pl. 4, figs. 5, 6 ♂, 1871; H. Edw., Pr. Cal. Ac. N. Sci., 6, 1876.

*Clarius*, Bd. (not Eversm.), Ann. Soc. Ent. Fr., 2, 10, 283, 1852; Edw., l. c., 1, 17, pl. 1, figs 1-4, 1871.

*Baldur*, Edw., Cat. Lep., 12, 1877; Mead, Psyche, 2, 180, 1878.

*Hab.*—Cala.; Utah; Nev.; Mont.

var. **MÉNÉTRIÉSI**, H. Edw., Pr. Cal. Ac. N. Sci., 6, 1876.

*Hab.*—Sier. Nev.; Lake Tahoe; Mt. Nebo, Utah.

24. **Smintheus**, Doubl.-Hew., Gen. Di. Lep., pl. 4, 1847; Edw., But., 1, 21, pl. 5, 6, 7, 1872 \*.

*Sayii*, ♀, Edw., Pr. E. Soc. Phil., 2, 78, 1863; id., But., 1, pl. 5, fig. 2, 1872; Mead, Rep. Wheeler Exp., 7, 742, 1875; Behrens, Papilio, 2, 50, 1882.

*Hab.*—Rocky Mts., Col. to Mont.; N. Mex.; Mt. Bradley, Cala.

var. **BEHRII**, Edw., Tr. A. E. Soc., 3, 10, 1870; id., But., 1, pl. 6, fig. 3 ♂ + ♀, 1872; Mead, Psyche, 2, 181, 1878 \*.

*Hab.*—Nev.; Utah.

var. **HERMODUR**, H. Edw., Papilio, 1, 4, 1881; Edw., Papilio, 3, 158, 1883.

*Hab.*—Col.; Mont.; Br. Am.

25. † **Nomion**, Fisch., Ent. Russ., 2, 242, pl. 6, 1823; Bd. Sp. Gen., 1, 397, pl. 2, 1836.

*Hab.*—Alaska. (coll. Behr.)

26. **Eversmanni**, Mén., Cat. Mus. Petr., 1, 73, pl. 1, figs. 1, 2 ♂, 1855; Scud., Pr. Bost. Soc. N. Hist., 12, 45, 1869; Edw., But., 1, 27, pl. 7, figs. 6, 7, ♂, 1872.

♀ *Wosnesenski*, Mén., l. c., pl. 1, fig. 3, 1855.

var. ♀, **THOR**, H. Edw., Papilio, 1, 4, 1881; id., l. c., 2, 148, 1882.

*Hab.*—Alaska; Siberia.

## PIERINÆ.

**NEOPHASIA**, Behr.

27. **Menapia**, Feld., Wien. Ent. Monat., 3, 271, 1859; id., Reise Nov. Lep., 181, pl. 25, 1865; Edw., But., 1, 27, pl. 8, 1871; id., ♀, l. c., Supp. Notes, 1872; Str., Lep., pl. 2, fig. 4, ♀, 1873; H. Edw., Pr. Cal. Ac. N. Sci., 5, 165, 1873 \*; Mead, Rep. Wheeler Exp., 5, 743, 1875; Stretch, Papilio, 2, 103, 1882 \*; Hag., Pr. Bost. Soc. N. Hist., 22, 134, 1882.

*Tau*, Scud., Pr. Bost. Soc. N. Hist., 3, 183, 1861.

*Ninonia*, Bd. Lep. de la Cala., 38, 1869.

var. **SUFFUSA**, Stretch, Papilio, 2, 110, pl. 2, 1882.

*Hab.*—Cala.; Oreg.; W. Terr.; Vanc. Isld.; Col.

**PIERIS**, Schrank.**Group I.**

28. **Amaryllis**, Fab., Ent. Syst., 3, 1, 189, 1797; Don., Ins. Ind., pl. 28, 1800.

*Josephina*, Godt., Enc. Meth., 9, 158, 1819; Bd., Spec. Gen., 1, 532, 1836.

*Hab.*—So. Texas; Mex.

**Group II.**

29. **Ilaire**, Godt., Enc. Meth., 9, 142, 1819; Poey, Cent. Lep. Cuba, pl. 19, 1833; Bd., Spec. Gen., 1, 491, 1836.

*Hab.*—Indian River, Fla.; Texas; Ariz. (by Morrison)

**Group III.**

30. **Monuste**, Linn., Mus. Lud. Ulr., 237, 1764; Bd., Sp. Gen., 1, 495, 1836; Morr., 4, 1862; Riley, U. S. Agr. Rep., 1883, 117, pl. 10 \*.

*Monusta*, Cram., 2, pl. 141, fig. F, 1779.

*Cleomes*, Bd.-Lec., 43, pl. 16, 1883 \*.

*Hab.*—Southn. St.; Texas.

**Group IV.**

31. **Beckerii**, Edw., But., 1, 30, pl. 8, 1871; id., l. c., 2, pl. 1 of Pieris, 1883 \*; Mead, Rep. Wheeler Exp., 5, 745, 1875; id., Psyche, 2, 183, 1878 \*; Hag., Pr. Bost. Soc. N. H., 22, 139, 1882.

*Hab.*—Nev.; Utah; Cala.; Oreg.; W. Terr.; Col.; Ariz.

32. **Sisymbri**, Bd., Ann. Soc. Ent. Fr., 2, 10, 284, 1852; Mead, Psyche, 2, 184, 1878 \*; Edw., But., 2, pl. 1 of Pieris, 1883 \*.  
*Hab.*—Cala.; Nev.; Col.; Ariz.

#### Group V.

33. **Nelsoni**, Edw., But., 2, pl. 1 of Pieris, 1883.  
*Hab.*—St. Michael's, Alaska.
34. **Occidentalis**, Reak.  
 winter form CALYCE, Edw., Tr. A. E. Soc., 3, 189, 1870.  
*Leucodice*, Bd., (not Eversm.) Ann. Soc. Ent. Fr., 2, 10, 284, 1852.  
 summer form OCCIDENTALIS, Reak., Pr. E. Soc., Phil., 6, 133, 1866; Mead, Psyche, 2, 184, 1878.  
*Hab.*—Rocky Mts. to Pac.; Cala. to Oreg.; Br. Am.
35. **Protodice**, Bd.-Lec.  
 winter form VERNALIS, Edw., Pr. E. Soc. Phil., 2, 501, 1864;  
 id., But., 1, 33, pl. 9, 1871; Bean, Can. Ent., 9, 201, 1877 \*.  
 summer form PROTODICE, Bd.-Lec., 45, pl. 17, 1833; Riley, second Mo. Ent. Rep., 104, 1870 \*; id., U. S. Agr. Rep., 1883, 114, pl. 10 \*.  
*Nasturtii*, Edw. (not Boisd.), Pr. E. Soc. Phil., 501, 1864.  
*Hab.*—Mid., South., Westn. St. to Pac.; Br. Am.

#### Group VI.

36. **Napi**, Esper.  
 Arctic form BRYONLÆ, Ochs., Eur. Schmett., 1, 2, 151, 1808;  
 Edw., Papilio, 1, 86, pl. 2, fig. 4, 1881.  
*Hab.*—Alaska.
- var. **HULDA**, Edw., Tr. A. E. Soc., 2, 370, 1869; id., Papilio, 1, pl. 2, fig. 5.  
*Hab.*—Kodiak, Alaska.
1. winter form VENOSA, Scud., Pr. Bost. Soc. N. Hist., 8, 182, 1861; Edw., Papilio, 1, pl. 2, fig. 6; Str., Lep. pl. 8, fig. 2, 3, 1874.  
*Hab.*—Cala. to Br. Col.
- aberr. **FLAVA**, Edw., l. c., 98, 1881.  
*Hab.*—Cala.

2. winter form *OLERACEA-HIEMALIS*, Harr., N. E. Farm., 8, 402, 1829 ; id., in Agas. L. Supr., 386, 1850 \* ; Edw., l. c., pl. 2, fig. 8 ; Riley, U. S. Agr. Rep., 1883, 108, pl. 1 \*.  
var. *BOREALIS*, Gro., Buff. Bull., 1, 185, 1873 ; Edw., l. c., pl. 2, fig. 9.

*Hab.*—Labr. ; Antici.

var. *FRIGIDA*, Scud., l. c., 8, 181, 1861.

*Hab.*—Boreal Am.

aberr. *VIRGINIENSIS*, Edw., Tr. A. E. Soc., 3, 13, 1870 ; id., But., 1, 34, pl. 9, 1871.

*Hab.*—N. Y. ; Ont.

3. 1. summer form *ACADICA*, Edw., Papilio, 1, 87, pl. 3, fig. 10, 11, 1881.

*Hab.*—N. F'land.

2. summer form, *a. PALLIDA*, Scud., l. c., 183, 1861 ; Str., Lep., 8, fig. 5 ♀ ; Edw., l. c., pl. 3, fig. 12, 13.

*Nasturtii*, Bd., Lep. de la Cala., 38, 1869.

*Hab.*—Cala. to Br. Col.

*b. CASTORIA*, Reak. ♂, Pr. Ac. N. Sci.

Phil., 1866, 31 ; Str., Lep., 8, fig. 4, 1874 ; Edw., l. c., pl. 3, fig. 14, 1881.

*Resedæ*, Bd., Lep. de la Cala., 39, 1869.

*Hab.*—Cala. to Br. Col.

aberr. *FLAVA*, Edw., l. c., 94, 1881.

*Hab.*—Cala.

3. summer form *OLERACEA-ÆSTIVA*, Harr., in Agas. L. Supr., 386, pl. 7, fig. 1, ♀, 1850 ; id., Ins. Mass., 270, fig. 99 ; Edw., l. c., pl. 3, fig. 15, 16 ; Fern., But. Me., 25, 1884 \*.

*Casta*, Kirby, Faun. Bor. Am., 4, pl. 3, fig. 1, 1837.

*Cruciferarum*, Bd., Sp. Gen., 1, 519, ♂, 1836.

*Hab.*—N. E. to Mich. ; Ont. ; Queb.

37. *Virginiensis*, Edw., Tr. A. E. Soc., 3, 13, 1870 ; id., But., 1, 34, pl. 9, 1871 ; id., Papilio, 1, 95, pl. 3, fig. 17, 18, 1881.

*Hab.*—W. Va.



38. **Rapæ**, Linn., Syst. Nat., 759, 1767; Riley, second Mo. Ent. Rep., 1870 \*; id., U. S. Agr. Rep., 1883, 108, pl. 1 \*; Fern. But. Me., 27, 1884 \*.

var. **MARGINALIS**, Scud., Pr. Bost. Soc. N. Hist., 8, 182, 1861.

*Rapæ*, Str., Lep., 8, fig. 6, 1874.

var. **YREKA**, Reak., Proc. Ac. N. Sci. Phil., 1866, 32.

*Resedæ*, Bd., Lep. de la Cala., 39, 1869.

*Rapæ*, Str., Lep., 8, fig. 7, 1874.

*Hab.*—N. E. to Rocky Mts.; Br. Am. to Pacific; N. Sco.

var. **MANNI**, Mayer; Stet. Ent. Zeit., 1851, p. 151.

*Hab.*—Ga.

var. **NOV.-ANGLIÆ**, Scud., Can. Ent., 4, 79, 1872; Str., Lep., 8, fig. 8.

*Hab.*—East. St.

#### **NATHALIS**, Boisduval.

39. **Iole**, Bd., Sp. Gen., 1, 589, 1836; Mead, Rep. Wheeler Exp., 5, 747, 1875.

var. **IRENE**, Fitch, Tr. N. Y. St. Ag. Soc., 485, 1856.

*Hab.*—Ill.; Mo. to Cala.; N. Mex.; Ariz.

#### **ANTHOCHARIS**, Boisduval.

##### Group I.

40. **Lanceolata**, Bd., Ann. Soc. Ent. Fr., 2, 10, 284, 1852; Morr., 4, 1862; Str., Lep., pl. 6, fig. 5, 1873; Mead, Psyche, 2, 183, 1878 \*.

*Edwardsii*, Behr., Tr. A. E. Soc., 2, 304, 1869.

*Hab.*—Cala.; Nev.; Ariz.

##### Group II.

41. **Creusa**, Doubl.-Hew., Gen. Di. Lep., pl. 7, 1847.

*Hab.*—So. Cala.; Ariz.; Utah.

42. **Hyantis**, Edw., Tr. A. E. Soc., 3, 205, 1871; H. Edw., Pr. Cal. Ac. N. Sci., 1878; Mead, Psyche, 2, 183, 1878 \*.

*Hab.*—Col.; Cala.; Ariz.

43. **Olympia**, Edw., l. c., 3, 266, 1871; id., But., 2, pl. 1 of Anth., 1874.

*Hab.*—W. Va.; Ind.; Neb.

44. **Rosa**, Edw., Papilio, 2, 45, 1882.

*Hab.*—West Texas.

45. **Ausonides**, Bd., Ann. Soc. Fr., 2, 10, 286, 1852; Edw., Ent., 2, pl. 1 of Anth., 1874; Mead. Rep. Wheeler Exp., 1, 747, 1875 \*.

var. **COLORADENSIS**, H. Edw., Papilio, 1, 1881.

*Hab.*—Col. to Cala.; Ariz.; Br. Am.; Youcon River, Alaska.

### Group III.

46. **Cethura**, Feld., Reise Nov. Lep., 2, 182, pl. 25, 1865.

*Cooperi*, Behr., Tr. A. E. Soc., 2, 304, 1869; Edw., But., 1, 38, pl. 10, 1870.

*Angelina*, Bd., Lep. de la Cala., 40, 1869.

*Hab.*—So. Cala.

47. **Morrisoni**, Edw., Papilio, 1, 43, 1881.

*Hab.*—Kern River, Cala.

48. **Thoosa**, Scud., ♀, Hayden Bull., 4, 257, 1878; Edw., ♂, ♀, Can. Ent., 11, 87, 1879.

*Hab.*—Utah; Ariz.

49. **Sara**, Bd., Ann. Soc. Ent. Fr., 2, 10, 285, 1852; Edw., But., 1, 39, pl. 11, 1871.

*Hab.*—Cala.

50. **Reakirtii**, Edw., Tr. A. E. Soc., 2, 369, 1869; id., But., 1, 37, pl. 10, 1870.

*Hab.*—Cala.

51. **Stella**, Edw., Can. Ent., 11, 87, 1879.

*Hab.*—Nev.; Cala.; Oreg.; Ariz.

52. **Julia**, Edw., Tr. A. E. Soc., 4, 61, 1872; id., But., 2, pl. 2 of Anth., 1878; Str., Lep., pl. 6, figs. 6, 7, 1873.

*Hab.*—Col.; N. Mex.; Ariz.; Mont.

53. **Genutia**, Fab., Ent. Syst., 3, 193, 1793; Bd., Sp. Gen., 1, 565, 1836; Edw., l. c., 2, pl. 2 of Anth., 1878.

*Hab.*—N. Y. to Va.; West. St.; Texas.

### **CALIDRYAS**, Boisduval.

#### Group I.

54. **Eubule**, Linn., Syst. Nat., 2, 743, 1766; Sm.-Abb., pl. 5, 1797 \*; Bd.-Lec., 74, pl. 24, 1833 \*; Butl., Lep. Ex., 58, pl. 22, 1874; Edw., Tr. A. E. Soc., 9, 12, 1881.

*Hab.*—So. St. to W. Va. and Ohio; Ill.; Iowa; Ariz.; So. Cala.; occasl. N. Y.; also R. I. (auct. Clark)

55. **Sennæ**, Linn., Syst. Nat., 2, 764, 1766; Butl., l. c., 59, pl. 23, 1874; Edw., l. c., 9, 11, 1881.

♂ *Marcellina*, Cram., 2, 163, figs. A, C, 1779.

♀ *Eubule*, Cram., 2, 120, figs. E, F, 1779.

var. ♀ ORBIS, Poey, Cent. Lep. Cuba, pl. 1, 1832.

*Hab.*—Indian River, Fla.; Texas; Ariz.

#### Group II.

56. **Philea**, Linn., Syst. Nat., 2, 764, 1766; Butl., l. c., 92, pl. 35, 1874; Edw., l. c., 9, 13, 1881.

*Hab.*—Occasl. Texas; also Ill. (see Am. Ent., 2, 340); also near Racine, Wis. (auct. Hoy, see Papilio 4, 113)

57. **Agarithe**, Bd., Sp. Gen., 1, 623, 1836; Butl., l. c., 121, pl. 45, 1874; Edw., l. c., 9, 13, 1881.

*Hab.*—Fla.; Texas; Kans.; Ariz.; occasl. Neb.

#### **KRICOGONIA**, Reakirt.

58. **Lyside**, Godt.

1. winter form **LYSIDE**, Godt., Enc. Meth., 9, 98, 1819; Bd., Sp. Gen., 1, 603, 1836.

2. summer form **TERISSA**, Luc., Rev. Zoöl., 1852, 429.

*Hab.*—Texas; Indian River, Fla.

59. **Fantasia**, Butl., Tr. Ent. Soc., Lond., 1871, p. 170, pl. 7, fig. 6.

*Hab.*—Texas.

60. † **Lanice**, Lint. MSS.

*Hab.*—Rio Grande. Texas.

#### **COLIAS**, Fabricius.

##### Group I.

61. **Eurydice**, Bd., Ann. Soc. Ent. Fr., 3, 32, 1855; Edw., Butl., 1, 53, pl. 16, 1870; H. Edw., Pr. Cal. Ac. N. Sci., 6, 1876 \*; Edw., Can. Ent., 15, 224, 1883 \*.

*Wosnesenski*, Mén., Cat. Mus. Petr., 1, 77, pl. 1, 1855.

♀ *Rhodocera Lorquini*, Bd., l. c., 3, 52, 1855.

dim. form **AMORPHÆ**, H. Edw., Pr. Cal. Ac. N. Sci., 6, 1876.

*Hab.*—Cala.; Ariz.; Oreg.

62. **Cæsonia**, Stoll, Suppl. Cram., pl. 41, figs. 2, 2 B, 1790; Bd., Lec., 67, pl. 22, 1833 \*; Bd., Sp. Gen., 1, 635, 1836; Morr., 27, 1862.

*Hab.*—So. States; Miss. Valley; Texas to Cala.; occasl. Minn.

## Group II.

63. **Meadii**, Edw., Tr. A. E. Soc., 3, 267, 1871; id., But., 1, 60, pl. 19, 1872; Mead, Rep. Wheeler Exp., 5, 750, 1875.  
*Hab.*—Col.; Mont.; N. Mex. (Alpine)
64. **Hecla**, Lef., Ann. Soc. Ent. Fr., 5, 383, pl. 9, 1836.  
*Hab.*—Arctic, Greenland to Behring's Straits.  
 var. **GLACIALIS**, McLachl., Linn. Soc. JI., 14, 108, 1878.  
*Hab.*—Grinnell Land.  
 var. **HECLA**, Str., Br. Bull., 3, 33, 1880.  
*Hab.*—Hudson's Bay.
65. **Boothii**, Curt., App. Ross Exp., 65, pl. A, figs. 3-5, 1835.  
 var. **CHIONE**, Curt., l. c., pl. A, fig. 6, 1835.  
*Hab.*—Arctic Am.
66. **Eurytheme**, Bd.  
 1. 1. winter form **ARIADNE**, Edw., Tr. A. E. Soc., 3, 12, 1870; id., But., 2, pl. 4 of *Colias*, 1878.  
 2. winter form **KEEWAYDIN**, Edw., But., 1, 49, pl. 15, 1869; vol. 2, pl. 4 of *Colias*, 1878.  
 2. summer form **EURYTHEME**, Bd., Ann. Soc. Ent. Fr., 2, 10, 286, 1852; Edw., l. c., 1, 45, pl. 14, 1869; vol. 2, pl. 4 of *Colias*, 1878 \*; H. Edw., Pr. Cal. Ac. N. Sci., 5, 162, 1873 \*; Boll. Deuts. Entom. Zeits., Berlin, 1880, 24, 249; Edw., *Papilio*, 3, 182-185, 1883; Sprague, Can. Ent., 12, 100, 1880.  
*Amphidusa*, Bd., Ann. cit., 2, 10, 286, 1852.  
*Edusa*, var. *Californica*, Mén., Cat. Mus. Petr., 1, p. 80, 1855.  
*Chrysotheme*, Str. (not Esper) Cat., 83; Hagen, Pr. Bost. Soc. N. Hist., 22, 173, 1882 (see Edw. *Papilio*, 3, 171, 1883).  
*Hab.*—Westn. States to Pac.; Br. Am.; occasl. in Mid. States to Mass.; Ont.; Queb.
67. **Hagenii**, Edw., *Papilio*, 3, 163, 1883 \*.  
*Hab.*—Col. to Mont.; Br. Am.
68. **Philodice**, Godt., Enc. Meth., 9, 100, 1819; Bd.-Lee., 64, pl. 21, 1833; Harr., 272, figs. 100-102, 1862 \*; Saund., Can.

- Ent., 1, 54, 1869 \*; Riley, second Mo. Ent. Rep., 116, 1870 \*; Edw., But., 2, pl. 2, 3 of *Colias*, 1876 \*; Fern., But. Me., 30, 1884 \*.
- var. *ANTHYALE*, Hüb., Zutr. Ex. Schmett., figs. 307, 308, 1823; Edw., But., 2, pl. 2, cit.
- var. *ALBINIC*, Edw., l. c., 2, pl. 2, cit.
- var. *MELANIC*, id., pl. 3, cit.
- Hab.*—Atl. States; Miss. Valley; Ont.; Queb.; N. Sco.
69. **Eriphyle**, Edw., Tr. A. E. Soc., 5, 202, 1876.
- Hab.*—Br. Col.
70. **Harfordii**, H. Edw., ♂, Pr. Cal. Ac. N. Sci., 7, 1877.
- Barbara*, H. Edw., ♀, l. c., 6, 1877; Edw., *Papilio*, 4, 2, 1884 \*.
- Hab.*—Cala.
71. **Occidentalis**, Scud., Pr. Bost. Soc. N. Hist., 9, 109, 1862; Edw., But., 1, 57, pl. 18, 1871.
- Hab.*—Fort Simpson; Br. Am.; Vanc. Isl'd.
- Southern form *CHRYSOMELAS*, H. Edw., Pr. Cal. Ac. N. Sci., 7, 1877.
- Hab.*—North. Cala.; Utah.
72. **Christina**, Edw., Pr. E. Soc. Phil., 2, 79, 1863; id., But., 1, 43, pl. 13, 1868; id., *Papilio*, 4, 30, 1884; Lyman, Can. Ent., 16, 5, 1884.
- Hab.*—Slave River south; Red Deer River; Mt. Judith, Mont.
- Southern form *ASTRÆA*, Edw., Tr. A. E. Soc., 4, 61, 1872; id., *Papilio*, 4, 30, 1884.
- Hab.*—Yellow Stone and Mt. Judith, Mont.; Red Deer River; Br. Am. (by Geddes)
73. **Alexandra**, Edw., Pr. E. Soc. Phil., 2, 14, pl. 11, 1863; id., But., 1, 41, pl. 12, 1868; Mead, Rep. Wheeler Exp., 5, 749, 1875 \*.
- Hab.*—Col.; Mont.; Br. Am. (by Geddes)
74. **Edwardsii**, Behr., in But. N. A., 1, 55, pl. 17, 1870.
- Hab.*—Nev.; Utah; Owen's Lake, So. Cala.; Mt. Hood, W. Terr. (by Morrison); Mont.; Edmonton, Br. Am. (by Geddes)
75. **Emilia**, Edw., Tr. A. E. Soc., 3, 12, 1870.
- Hab.*—Oreg.

76. **Interior**, Scud., Pr. Bost. Soc. N. Hist., 9, 108, 1862; Fern., But. Me., 32, 1884.  
*Philodice*, var. *Laurentina*, Scud., l. c., 18, 4, 1876.  
*Hab.*—Cape Breton Isl'd.; Lower St. Lawrence, Queb.; Nipegon River; Saskatch.; Me.
77. **Scudderii**, Reak., Pr. E. Soc. Phil., 4, 217, 1865; Edw., But., 1, 59, pl. 19, 1872; Mead, Rep. Wheeler Exp., 5, 749, 1875.  
*Hab.*—Col.; Mont.; Br. Col.; Br. Am. (by Geddes)
78. **Pelidne**, Bd., Icones, pl. 8, 1832; Bd.-Lec., 66, 1833; id., Sp. Gen., 1, 644, 1836; Mösch., Wien. Ent. Monat., 4, 349, 1860; Edw., But., 2, pl. 1 of *Colias*, 1874.  
*Labradorensis*, Scud., Pr. Bost. Soc. N. Hist., 9, 107, 1862.  
*Hab.*—Labr.; Ungava Bay.
79. **Palæno**, Linn., Syst. Nat., 2, 764, 1767; Bd., Sp. Gen., 1, 645, 1836.  
*Hab.*—Labr.; Alaska (coll. Behr)
80. **Chippewa**, Edw.  
*Helena*, Edw. (name pre-occupied), Pr. E. Soc. Phil., 2, 80, 1863; id., But., 1, 42, pl. 12, 1868.  
*Hab.*—Fort Simpson; St. Michaels, Alaska; Kotzebue Sound.
81. **Nastes**, Bd., Icones, pl. 8, 1832; id., Sp. Gen., 1, 648, 1836; Herr.-Schaeff., Eur. Schmett., pl. 7, figs. 41, 42, pl. 85, figs. 403, 404, 1843; Mösch., Wien. Ent. Monat., 4, 354, pl. 9, 1860; Edw., But., 2, pl. 1 of *Colias*, 1874.  
*Hab.*—Labr.; Ungava Bay.
82. **Moina**, Str., Br. Bull., 3, 34, 1880.  
*Hab.*—Hudson's Bay.
83. **Behrii**, Edw., Pr. E. Soc. Phil., 6, 1866; id., But., 1, 44, pl. 13, 1868.  
*Hab.*—Yo Semite, Cala. (Alpine)

**TERIAS**, Swainson.**Group I.**

84. **Gundlachia**, Poey, Hist. Nat. de Cuba, 1, 246, pl. 24, 1851.  
*Hab.*—Texas; Ariz.
85. **Proterpia**, Fab., Syst. Ent., 478, 1775; Bd., Sp. Gen., 1, 654, 1836; Morr., 35, 1862.  
*Hab.*—Texas; Ariz.

86. **Nicippe**, Cram., 3, 210, 1872; Say, Am. Ent., 2, pl. 30, 1825; Bd.-Lec., 55, pl. 20, 1833 \*; H. Edw., Pr. Cal. Ac. N. Sci., 166, 1873 \*; Edw., Can. Ent., 13, 61, 1881 \*.  
*Hab.*—Pa. to Gulf Mex.; Miss. Valley; Ariz.; Cala.; occasl. N. Eng.
87. **Mexicana**, Bd., Sp. Gen., 1, 653, pl. 3, 1836; Morr., 36, 1862.  
*Hab.*—Texas; Ariz.; So. Cala.; Kans.; occasl. Neb.; Iowa; Ill.; Grant County and Racine, Wis.; also Point Pelee, Ont. (auct. Saunders)
88. **Damaris**, Feld., Reise Nov. Lep., 198, 1865; Edw., Papilio, 2, 20, 1882.  
*Hab.*—Ariz.

#### Group II.

89. **Westwoodii**, Bd., Sp. Gen., 1, 666, 1836.  
*Hab.*—Texas (coll. Mead)
90. **Lisa**, Bd.-Lec., 53, pl. 19, 1833; id., Sp. Gen., 1, 661, 1836; Morr., 34, 1862; Fern., But. Me., 32, 1884.  
*Hab.*—Isle of Shoals, Me. (by Thaxter); south to Gulf Mex.; Westn. States; Ariz.; Hamilton, Ont. (by Moffatt)
91. **Delia**, Cram., 3, pl. 273, fig. A, 1782; Bd.-Lec., 49, pl. 18, 1833 \*; id., Sp., Gen., 1, 663, 1836; Morr., 34, 1862.  
*Hab.*—Gulf States.
92. **Jucunda**, Bd.-Lec., 52, pl. 19, 1833; id., Sp. Gen., 1, 665, 1836; Morr., 35, 1862.  
*Hab.*—Gulf States.

### NYMPHALIDÆ.

#### HELICONINÆ.

#### HELICONIA, Latreille.

93. **Charitonia**, Linn., Syst. Nat., 2, 757, 1767; Cram., 2, pl. 191, fig. F, 1779; Bd.-Lec., 140, pl. 41, 1833; Gosse, in Doubl., Gen. Di. Lep., 1, 97, note, 1850 \*; Edw., Papilio, 1, 210, 1881 \*; id., Can. Ent., 13, 158, 1881 \*; id., But., 2, pl. 1, Char., 1882 \*.  
*Hab.*—Fla. to S. Car.; W. Ind.; trop. Am.

## DANAINÆ.

**DANAIS**, Latreille.

94. **Archippus**, Fab., Ent. Syst., 3, 49, 1793; Sm.-Abb., pl. 6, 1797 \*; Bd.-Lec., 137, pl. 40, 1833 \*; Harr., 280, 1862 \*; Saund., Can. Ent., 5, 4, 1873 \*; Riley, third Mo. Ent. Rep., 143, 1871 \*; Edw., Can. Ent., 8, 119, 1876 \*; id., l. c., 10, 224, 1878; id., Psyche, 2, 169, 1878 \*; Mundt, Can. Ent., 11, 239, 1879 \*; Burg., Mem. Bost. Soc. N. Hist., 1880, anat. of, plates; Moff., Can. Ent., 12, 37, 1880; Thaxt., l. c., 12, 38, 1880 \*; Fern., But. Me., 34, 1884 \*.

*Plexippus*, Say, Am. Ent., 3, pl. 54, 1828; Scud., Psyche, 1, 81, 1875 \*.

*Hab.*—U. S. generally; Br. Am.; Ont. to N. Sco.

95. **Berenice**, Cram., 3, 205, figs. E, F, 1782; Bd.-Lec., 134, pl. 39, 1833 \*.

*Gilippus*, Sm.-Abb., pl. 7, 1797 \*.

*Hab.*—So. States; Col.; N. Mex.; Ariz.

96. **Strigosa**, Bates, Ent. Mo. Mag., 1, 32, 1864.

*Hab.*—Texas; Ariz.

**DIRCENNA**, Doubleday.

97. † **Klugii**, Hüb., Zutr. Ex. Schmett., figs. 801, 802, 1837.

*Hab.*—Rio Grande, Texas (auct. Lintner).

## NYMPHALINÆ.

**COLÆNIS**, Doubleday.

98. **Julia**, Fab., Syst. Ent., 509, 1775.

*Alcionea*, Cram., 3, pl. 215, figs. A, F, G, 1782.

*Hab.*—So. Fla.; Texas.

99. **Delila**, Fab., Syst. Ent., 510, 1775.

*Cillene*, Cram., 3, 215, D, E, 1782.

*Hab.*—Occasl. Texas.

**AGRAULIS**, Boisduval and LeConte.

100. **Vanillæ**, Linn., Mus. Lud. Ulr., 306, 1764; Cram., 3, 212, figs. A, B, 1782; Bd.-Lec., 143, pl. 42, 1833 \*; Edw., Can. Ent., 12, 122, 1880 \*.



*Passifloræ*, Fab., Ent.-Syst., 3, 60, 1793; Sm.-Abb., pl. 12, 1797 \*.

*Hab.*—So. States; Ariz.; Cala.; occasl. Coalburgh, W. Va. (by Edwards); Cape May, N. J.; Philadelphia, Pa.

### **ARGYNNIS**, Fabricius.

#### **Group I.**

101. **Idalia**, Drury, 1, pl. 13, 1775; Bd.-Lec., 147, pl. 43, 1833; Harr., 285, fig. 210, 1862; Edw., Can. Ent., 11, 217, 1879 \*; Fern., But. Me., 36, 1884 \*.

*Hab.*—Me. to Neb.; N. J.; Pa.; Arks.

aberr. **ASHTAROTH**, Fisher, Pr. Ac. N. Sci. Phil., 1858, 179, pl. 2; id., l. c., 1858, 352.

102. **Diana**, Cram., ♂, 2, pl. 98, figs. D, E, 1779; ♂, Say, Am. Ent., 1, pl. 17, 1825; ♀, Edw., Pr. E. Soc. Phil., 3, 431, 1864; id., ♂ ♀, But., 1, 63, pl. 20, 1868; 2, pl. 7 of Argyn. (prepy stages), 1876; id., Can. Ent., 6, 121, 1874 \*.

*Hab.*—W. Va. to Ga.; South. Ohio to Ill.; Ky.; Tenn.; Arks.

103. **Nokomis**, Edw., Pr. Ac. N. Sci. Phil., 1862, 221; id., But., 1, 73, pl. 23, 1868; Mead, Wheeler Rep., 5, 751, pl. 35, 1875.

*Hab.*—North. Ariz.; So. Utah.

104. **Nitocris**, Edw., Tr. A. E. Soc., 5, 15, 1874; Mead, Rep. Wheeler Exp., 5, 751, 1875.

♀ aberr. *Nokomis*, Str., Ruff. Rep., pl. 1, figs. 3, 4, 1879.

*Hab.*—So. Ariz. to Nev.

105. **Leto**, Behr., Pr. Cal. Ac. N. Sci., 2, 173, 1862; Edw., But., 1, 85, pl. 29, 1869.

*Cybele*, Bd., Lep. de la Cala., 60, 1869.

*Hab.*—Cala.; Oreg.; W. Terr.; Nev.; Mont.

106. **Carpenterii**, Edw., Tr. A. E. Soc., 5, 204, 1876.

*Hab.*—Ariz.

107. **Cybele**, Fab., Syst. Ent., 516, 1775; Bd.-Lec., 51, pl. 45, ♀, 1833; Edw., But., 1, 67, pl. 21, 1868; id., Can. Ent., 6, 121, 1874 \*; Saund., Can. Ent., 4, 121, 1872 \*; Fern., But. Me., 38, 1884.

*Hab.*—Atl. and West. St. to Neb.; Ont.; Queb.; Fort Edmonton, Br Am.

108. **Aphrodite**, Fab, Mant., 2, 62, 1767; Harr., 286, fig. 211, ♀, 1862; Edw., But., 1, 71, pl. 22, 1868; id., Can. Ent., 6, 121, 1874 \*; Fern., But. Me., 39, 1884.  
*Hab.*—North., Mid. and West. St. to Tenn.; Neb.; Mont.; Kans.; Ont.; Queb.; N. Sco.; Fort Edmonton, Br. Am.
109. **Alcestis**, Edw., Tr. A. E. Soc., 5, 289, 1876; id., Can. Ent., 13, 69, 1879 \*; Worth., Can. Ent., 10, 37, 1878.  
*Hab.*—Mich.; Ill.; Iowa; Mont.; Col.
110. **Nausicaä**, Edw., Tr. A. E. Soc., 5, 104, 1874; Mead, Rep. Wheeler Exp., 5, 752, 1875; Edw., Papilio, 2, 6, 1882.  
*Hab.*—Ariz.
111. **Lais**, Edw., Can. Ent., 15, 209, 1883.  
*Hab.*—Fort Edmonton, Br. Am. (by Geddes)
112. **Atlantis**, Edw., Pr. Ac. N. Sci. Phil., 1862, 54; Pack. Guide, 252, 1869 \*; Edw., But., 1, 75, pl. 24, 1868; id., Can. Ent., 9, 35, 1877 \*; Fern., But. Me., 40, 1884.  
*Hab.*—N. E.; N. Y.; Iowa; Ont.; Queb.; N. B.; N. F'land; Br. Am.
113. **Electa**, Edw., Field and Forest, 3, 143, 1878.  
*Hab.*—Col.; Los Vegas, N. Mex.; Mont.
114. **Columbia**, H. Edw., Pr. Cal. Ac. N. Sci., 6, 1877; id., Field and Forest, 3, 102, 1877.  
*Hab.*—Lakes Lahache and Quesnelle, Br. Col.
115. **Hesperis**, Edw., Pr. E. Soc. Phil., 2, 502, 1864; id., But., 1, 79, pl. 26, 1874; Mead, Rep. Wheeler Exp., 5, 754, 1875.  
*Hab.*—Col.; Utah; Mont.
116. **Hippolyta**, Edw., Can. Ent., 11, 81, 1879.  
*Hab.*—Oreg.
117. **Bremnerii**, Edw., Tr. A. E. Soc., 4, 63, 1872; id., But., 2, pl. 4 of Argyn., 1874.  
*Hab.*—Br. Col.; W. Terr.
118. **ZERENE**, Bd., Ann. Soc. Ent. Fr., 2, 10, 303, 1852; Behr, Pr. Cal. Ac. N. Sci., 2, 175, "No. 9," 1862.  
*Hydaspe*, Bd., Lep. de la Cala., 60, 1869.  
*var.* Edw., But., 1, 91, pl. 32, 1870.  
*Hab.*—Cala.; Nev.

119. **MONTICOLA**, Behr. l. c., 2, 175, "No. 8," 1862; Edw., But., 1, 81, pl. 27, 1868.  
 var. **PURPURASCENS**, H. Edw., Pr. Cal. Ac. N. Sci., 6, 1876.  
*Hab.*—Cala.; Oreg.; Nev.; Mont.; Summit, Br. Am. (by Geddes)
120. **Rhodope**, Edw., Tr. A. E. Soc., 5, 13, 1874; But., 2, pl. 6 of Argyn., 1874.  
*Hab.*—Br. Col.
121. **Behrensii**, Edw., Tr. A. E. Soc., 2, 370, 1869; id., But., 1, 89, pl. 31, 1870.  
*Hab.*—Mendocino, Cal.
122. **Halcyone**, Edw., ♂, But., 1, 83, pl. 28, 1869.  
*Hab.*—Col.; Wyom.
123. **Chitone**, Edw., Can. Ent., 11, 82, 1879.  
*Hab.*—Utah; Ariz.; S. E.; Cala.
124. **Coronis**, Behr, Pr. Cal. Ac. N. Sci., 2, 173, 1862, "No. 2,"  
 Edw., Pr. E. Soc. Phil., 3, 435, 1864.  
 ♀ *Nevadensis*, Edw., But., 1, pl. 33, 1871.  
*Juba*, Bd., Lep. de la Cala., 60, 1869.  
*Hab.*—So. Cala.; Shasta, Cala.; Utah; W. Terr.; Mont.; Belly River and Crow's Nest, Br. Am. (by Geddes)
125. **Callippe**, Bd., Ann. Soc. Ent. Fr., 2, 10, 302, 1852; Edw., But., 1, 77, pl. 25, 1868.  
*Hab.*—Cala.
126. **Nevadensis**, Edw. ♂ (not ♀), Tr. A. E. Soc., 3, 14, 1870; id., ♂ (not ♂), But., 1, 93, pl. 33, 1871 (the ♀ is *Coronis*).  
 var. **MEADII**, Edw., Tr. A. E. Soc., 5, 69, 1872; But., 2, pl. 2 of Argyn., 1875.  
*Hab.*—Nev.; Utah; Mont.
127. **Edwardsii**, Reak., Pr. E. Soc. Phil., 6, 137, 1866; Edw., But., 1, 87, pl. 30, 1869.  
*Hab.*—Col.; Mont.; Blackfoot Reserve, Br. Am. (by Geddes)
128. **Liliana**, H. Edw., Pr. Cal. Ac. N. Sci., 6, 1876.  
 aberr. **BARONII**, Edw., Tr. A. E. Soc., 9, 3, 1881.  
*Hab.*—Cala.; Utah.

129. **Rupesttris**, Behr., Pr. Cal. Ac. N. Sci., 2, 175, 1862, "No. 6";  
id., l. c., 3, 84, 1863; Edw., But., 2, pl. 7 of Argyn., 1876.  
var. **IRENE**, Bd.; *Egleis*, var. *Irene*, Bd., Lep. de la Cala., 59,  
1869.  
*Irene*, Edw., Can. Ent., 11, 53, 1879.  
*Hab.*—Cala., Mt. Shasta, Mt. Bradley; Weber Mts., Utah.
130. **Laura**, Edw., Can. Ent., 11, 49, 1879.  
*Hab.*—Cala.; Nev.
131. **Macaria**, Edw., Field and Forest, 3, 86, 1877.  
*Hab.*—Cala.
132. **Inornata**, Edw., Tr. A. E. Soc., 4, 64, 1872; id., But., 2, pl. 5  
of Argyn., 1876.  
*Hab.*—Cala.; Nev.
133. **Adiante**, Bd., Lep. de la Cala., 61, 1869; Behr., Pr. Cal. Ac. N.  
Sci., 2, 175, 1862, "No. 7," 1862.  
*Adiaste*, Edw., Pr. E. Soc. Phil., 3, 436, 1864.  
*Hab.*—Sta. Clara Mts., Cala.
134. **Artonis**, Edw., Tr. A. E. Soc., 9, 2, 1881.  
*Hab.*—Col.; Nev.
135. **Clio**, Edw., l. c., 5, 106, 1874.  
*Hab.*—Mont.; Br. Am., Crow's Nest; Head of Peace River.
136. **Opis**, Edw., l. c., 5, 105, 1874; id., But., 2, pl. 3 of Argyn.,  
1875.  
*Hab.*—Bald Mt., Br. Col.
137. **Bischoffii**, Edw., l. c., 3, 189, 1870; id., But., 2, pl. 3 of Argyn.,  
1875.  
*Hab.*—Sitka, Alaska.
138. **Eurynome**, Edw., Tr. A. E. Soc., 4, 66, 1872; id., But., 2, pl.  
1 of Argyn., 1875 \*; Mead, Rep. Wheeler Exp., 5, 755, 1875.  
*Astarte*, Edw. (not Doubl.), Pr. E. Soc. Phil., 1, 221,  
1862.  
*Hab.*—Col.; Mont.; Br. Am.
139. **Montivaga**, Behr., Pr. Cal. Ac. N. Sci., 2, 174, "No. 4," 1862;  
id., l. c., 3, 84, 1863.  
*Arge*, Str., Cat., 114, 1878.  
*Hab.*—Sierras, Cala.; Nev.

var. *ERINNA*, Edw., Can. Ent., 15, 33, 1883.

*Hab.*—W. Terr.; Col.; Mont.; Red Deer River, Br. Am.

140. **Egleis**, Bd., Lep. de la Cala., 59, 1869; Edw., Can. Ent., 11, 53, 1879 \*.

*Montivaga*, Edw. (not Behr), Pr. E. Soc. Phil., 3, 435, 1864.

♀ *Mormonia*, Bd., Lep. de la Cala., 58, 1869.

*Hab.*—Cala.; Nev.

#### Group II.

141. **Myrina**, Cram., 2, 189, figs. B, C, 1779; Say, Am. Ent., 3, pl. 46, 1828; Bd.-Lec., 155, pl. 45, 1833; Harr., 286, fig. 112, 1862; Saund., Can. Ent., 1, 55, 1869 \*; Scud., Am. Nat., Sept. 1872; Edw., Can. Ent., 8, 161, 1876 \*; id., l. c., 9, 34, 1877 \*; id., Papilio, 1, 134, 1881; Grub., Jen. Zeitschr. Nat., 17, 479, pl. 8, figs. 34, 35, 1884; Fern., But. Me., 40, 1884 \*.

*Hab.*—N. E. to Mont.; Col.; Ont.; Queb.; N. Sco.; Br. Am.; Sitka, Alaska.

142. **Triclaris**, Hüb., Samml. Ex. Schmett., 2 (1818–1824); Mead, Rep. Wheeler Exp., 5, 757, 1875; Scud., Pr. Bost. Soc. N. Hist., 17, 294, 1875.

*Ossianus*, Bd., Icon., pl. 19, 1832; Bd.-Lec., 157, 1833; Morr., 48, 1862.

*Hab.*—Arctic Am.; Labr.; Col.

143. **Helena**, Edw., Tr. A. E. Soc., 3, 268, 1871; Mead, Rep. Wheeler Exp., 5, 757, 1875.

*Hab.*—Mont.; Col.; N. Mex.; Ariz.

144. **Montinus**, Scud., Pr. Ess. Ins., 3, 166, 1862; id., Bost., Jl. N. Hist., 7, 626, pl. 14, 1863.

*Hab.*—White Mts., N. H.

145. **Chariclea**, Schneid., Neu. Mag., 5, 588, 1794; Hüb., Eur. Schmett., 1, figs. 769, 770, 1824–1826; Bd.-Lec., 161, 1833; Bd., Sp. Gen., 1, pl. 11, fig. 2, 1836; Morr., 49, 1862; Scud., Pr. Bost. Soc. N. Hist., 17, 297, 1875; McLach., Linn. Soc. Jl., 14, 109, 1878.

*Hab.*—Arctic Am. to lat. 81° 52'; Br. Am. to Pac.; Greenl.; Labr.

var. *OBSCURATA*, McLachl., l. c., 14, 110, 1878.

*Hab.*—Grinnell Land.

146. **Butlerii**, Edw., Can. Ent., 15, 32, 1883.  
*Hab.*—N. W. Am.; Grinnell Land; Nova Zembla.
147. **Boisduvallii**, Somm., in Bd. Icon., 1, 98, pl. 20, 1832.  
*Hab.*—Br. Col.; Crow's Nest, Br. Am. (by Geddes); Boreal Am.; Labr.
148. **Freya**, Thunb., Diss. Ins. Suec., 2, 34, pl. 5, 1791; Hüb., Eur., Schmett., 1, figs. 55, 56, 1793, figs. 771, 772, 1824–1826; Morr., 46, 1862; Scud., l. c., 17, 299, 1875; Mead, Rep. Wheeler Exp., 5, 756, 1875.  
*Hab.*—Boreal Am.; Br. Am.; Alaska; Col.  
 var. **TARQUINIUS**, Curt., App. Ross Exp., 68, 1835 \*.  
*Hab.*—Arctic Am.
149. **Polaris**, Bd., Icon., pl. 20, 1833; id., Sp. Gen., 1, pl. 11, fig. 1, 1836; Bd.-Lec., 159, 1833; Morr., 48, 1862; Scud., l. c., 17, 294, 1875.  
*Hab.*—Labr.; Arctic Am. to lat. 81° 52'; Greenl.
150. **Frigga**, Thunb., Diss. Ins. Suec., 2, 33, 1791; Hüb., Eur. Schmett., 1, figs. 49, 50, 1793; Scud., l. c., 17, 306, 1875.  
*Hab.*—Labr.; Arctic Am.; Alaska; Col.
151. **Improba**, Butl., Ent. Mo. Mag., 13, 206, 1877.  
*Hab.*—Arctic Am.
152. **Bellona**, Fab., Syst. Ent., 517, 1775; Bd.-Lec., 164, pl. 45, 1833; Harr., 287, figs. 113, 114, 1862; Scud., Am. Nat., Sept. 1872; id., Butterflies, 143, figs. 129, 130, 1881; Edw., Papilio, 1, 134, et seq., 1881; Fern., But. Me., 41, 1884 \*.  
*Hab.*—North. U. S.; Col.; Br. Am.; Ont.; Queb.
153. **Epithore**, Bd., Lep. de la Cala., 58, 1869; Edw., Pr. E. Soc. Phil., 3, 504, 1864.  
*Hab.*—Cala. to Oreg.; Nev.  
 var. **KREIMHILD**, Str., Ruff. Rep., p. 1854, 1879.  
*Hab.*—Utah; Ariz.
- EUPTOIETA**, Doubleday.
154. **Claudia**, Cram., 1, pl. 69, figs. E, F, 1779; Edw., Can. Ent., 2, 163, 1870 \*; id., l. c., 12, 231, 1880 \*; Mead, Rep. Wheeler Exp., 5, 750, 1875 \*.  
*Columbina*, Godt. (not Fabr.), Enc. Meth., 9, 260, 1819; Bd.-Lec., 153, pl. 44, 1833; Morr., 44, 1862.  
*Hab.*—N. Y. to Gulf Mex.; Miss. Valley; Col.; Ariz.; Cala.; occasl. N. H. and Queb. (Can. Ent., 14, 219)

155. **Hegesia**, Cram., 3, pl. 209, figs. E, F, 1872.

*Hab.*—Occasl. So. Cala.; Texas.

**MELITÆA**, Fabricius.

**Group I.**

156. **Phaeton**, Dru., 1, pl. 21, 1767; Bd.-Lee., 167, pl. 47, 1833; Harr., 288, fig. 115, 1862; Edw., Can. Ent., 1, 59, 2, 36, 1869 \*; id., l. c., 6, 159, 1874 \*; id., But., 2, pl. 1 of Melit., 1875 \*; id., Papilio, 4, 68, 1884 \*; Grub., Jen. Zeitschr. Nat., 17, 476, pl. 8, figs. 25–27, 1884 \*; Fern., But. Me., 43, 1884 \*.

aberr. **SUPERBA**, Str., Cat., p. 125, 1878.

aberr. **PHÆTHUSA**, Hulst., Br. Bull., 3, 77, 1880.

*Hab.*—U. S. east of Rocky Mts.; Ont.; Queb.; Lake of the Woods.

157. **Cooperi**, Behr, Pr. Cal. Ac. N. Sci., 3, 90, 1863 \*.

*Perdiccas*, Edw., Papilio, 1, 44, 1881.

*Hab.*—Puget Sound, W. Terr.; Big Horn Mts., Mont.; Vanc. Isld.

158. **Chalcedon**, Doubl.-Hew., Gen. Di. Lep., 1, 180, pl. 23, 1847; Edw., Pr. E. Soc. Phil., 1, 222, 1862; id., But., 1, 97, pl. 34, 1871 \*; id., Papilio, 4, 63, 1884 \*; H. Edw., Pr. Cal. Ac. N. Sci., 5, 167, 1873 \*.

*Hab.*—Cala.

var. **DWINELLEI**, H. Edw., Papilio, 1, 51, 1881.

*Hab.*—Mt. Shasta, Cala.

159. **Colon**, Edw., Papilio, 1, 45, 1881.

*Hab.*—Columbia River, west W. Terr., and Oreg.

160. **Anicia**, Doubl.-Hew., Gen. Di. Lep., 1, 179, pl. 23, 1848; Edw., Pr. E. Soc. Phil., 1, 223, 1862.

*Hab.*—Cala.; Nev.; Col.; Mont.

161. **Nubigena**, Behr, Pr. Cal. Ac. N. Sci., 3, 91, 1863; Mead, Rep. Wheeler Exp., 5, 758, 1875 \*.

*Hab.*—Cala.; Nev.; N. Mex.; Col.; Mont.

var. **WHEELERI**, H. Edw., Papilio, 1, 52, 1881.

*Hab.*—Nev.

162. **Quino**, Behr, Pr. Cal. Ac. N. Sci., 3, 90, 1863.

*Hab.*—Mendocino, Cala.

163. **Baroni**, H. Edw., *Papilio*, 1, 52, 1882; Edw., *Can. Ent.*, 11, 149, 1879 \*.  
*Hab.*—North Cala.
164. **Rubicunda**, H. Edw., *Papilio*, 1, 52, 1882.  
*Hab.*—North Cala.
165. **Editha**, Bd., *Ann. Soc. Ent. Fr.*, 2, 10, 304, 1852; Morr., 51, 1862; H. Edw., *Pr. Cal. Ac. N. Sci.*, 5, 167, 1873.  
*Hab.*—South. Cala.
166. **Helvia**, Scud., *Pr. Bost. Soc. N. Hist.*, 12, 405, 1869.  
*Hab.*—Ramparts, Youcon River, Alaska.

## Group II.

167. **Sterope**, Edw., *Tr. A. E. Soc.*, 3, 190, 1870.  
*Hab.*—Oreg.
168. **Acastus**, Edw., *Tr. A. E. Soc.*, 5, 16, 1874; Mead, *Rep. Wheeler Exp.*, 5, 761; 1875.  
*Hab.*—Nev.; Utah; Mont.
169. **Palla**, Bd., *Ann. Soc. Ent. Fr.*, 2, 10, 305, 1852; Behr, *Pr. Cal. Ac. N. Sci.*, 3, 88, 1863; Morr., 52, 1862; H. Edw., *Pr. Cal. Ac. N. Sci.*, 5, 167, 1873 \*.  
*Hab.*—Cala. to W. Terr.; Nev.; Mont.; Br. Am., Crow's Nest (by Geddes).
170. **Whitneyi**, Behr, *Pr. Cal. Ac. N. Sci.*, 3, 88, 1863.  
*Polu*, Bd., *Lep. de la Cala.*, 56, 1869.  
*Hab.*—Cala.; Nev.
171. **Hoffmanni**, Behr, *l. c.*, 3, 89, 1863.  
 var. *HELCITA*, Bd., *Lep. de la Cala.*, 55, 1869.  
*Hab.*—Cala.; Nev.; Oreg.; Col.; Mont.
172. **Gabbii**, Behr, *l. c.*, 3, 89, 1863.  
*Sonoræ*, Bd., *Lep. de la Cala.*, 56, 1869.  
*Hab.*—South. Cala.; Utah; Ariz.
173. **Harrisii**, Scud., *Pr. Ess. Ins.*, 3, 167, 1862; Edw., *Can. Ent.*, 9, 165, 1867 \*; Fern., *But. Me.*, 45, 1884 \*.  
*Hab.*—N. E.; N. Y.; Mich.; Ill.; Wis.; Ont.; Queb.

## Group III.

174. **Ulrica**, Edw., *Can. Ent.*, 9, 189, 1877.  
*Imitata*, Str., *Lep.*, Pt. 14, 1878.  
*Hab.*—S. W. Texas.



175. **Dymas**, Edw., Can. Ent., 9, 190, 1877.  
*Larunda*, Str., l. c., Pt. 14, 1878.  
*Hab.*—S. W. Texas.
176. **Perse**, Edw., Papilio, 2, 136, 1882.  
*Hab.*—Ariz.
177. **Chara**, Edw., Can. Ent., 15, 209, 1883.  
*Hab.*—So. Ariz.
178. **Leanira**, Bd., Lep. de la Cala., 27, 1869; Mead, Rep. Wheeler Exp., 5, 759, pl. 37, 1875.  
 var. OBSOLETA, H. Edw., Pr. Cal. Ac. N. Sci., 6, 1876.  
*Hab.*—Cala.; Ariz.; Nev.; Mont.; Br. Am., Garnett Rancho (by Geddes).
179. † **Alma**, Str., Lep., pl. 15, ♂, 1878; id., Ruff., Rep., p. 1855, 1879.  
*Hab.*—So. Utah; Ariz.
180. **Fulvia**, Edw., Can. Ent., 11, 117, 1879.  
*Hab.*—West. Texas; Col.
181. **Thekla**, Edw., Tr. A. E. Soc., 3, 191, 1870.  
*Hab.*—So. Cala.; Ariz.
182. **Bollii**, Edw., Field and Forest, 3, 101, 1877.  
*Hab.*—S. W. Texas; Ariz.
183. **Minuta**, Edw., Pr. Ac. N. Sci. Phil., 1861, 161; Morr., 325, 1862; Mead, Rep. Wheeler Exp., 5, pl. 36, 1875.  
*Hab.*—Col.; Ariz.; N. Mex.
184. **Arachne**, Edw., Tr. A. E. Soc., 2, 372, 1869; id., l. c., 9, 8, 1881.  
*Hab.*—Col.; Ariz.; West. Texas.
185. **Nympha**, Edw., Papilio, 4, 53, 1884.  
*Hab.*—So. Ariz.

### PHYCIODES, Doubleday.

#### Group I.

186. **Nycteis**, Doubl.-Hew., Gen. Di. Lep., 181, pl. 23, 1847; Lintn., Ent. Cont., 1, 26, 1872 \*; Riley, Pr. Am. A. A. Sci., 1874, 108 \*; Edw., Can. Ent., 5, 224, 1873 \*; id., l. c., 11, 101,

1879 \* ; Grub., Jen. Zeitschr. Nat., 17, 478, pl. 8, figs. 30, 32,  
1884 \* ; Fern., But. Me., 46, 1884 \*.

*Oenone*, Scud., Pr. Ess. Ins., 3, 166, 1862.

*Harrisii*, Edw., Can. Ent., 2, 163, 1870 \* ; Saund., l. c.,  
4, 161, 1872 \*.

*Hab.*—Me. to N. C. and west ; Miss. Valley ; Ont. ; Queb.

var. *DRUSIUS*, Edw., Papilio, 4, 57, 1884.

*Oenone*, Mead, Rep. Wheeler Exp., 5, 762, 1875.

*Hab.*—Col. ; Ariz.

187. **Carlota**, Reak., Pr. E. Soc. Phil., 6, 141, 1867.

*Nycteis*, Edw. (not Doubl.), Pr. Ac. N. Sci. Phil., 1861,  
161.

*Hab.*—Southn. and Westn. St. ; Rocky Mts. ; Mont. to Ariz.  
(occasl. in W. Va.)

#### Group II.

188. **Vesta**, Edw., Tr. A. E. Soc., 2, 371, 1869 ; id., Can. Ent., 11,  
129, 1879 \*.

1. winter form, But., 2, pl. 2 of Phyc., 1878.

2. summer form, l. c., pl. cit.

*Hab.*—Texas.

189. **Phaon**, Edw., Pr. E. Soc. Phil., 2, 505, 1864.

1. winter form, But., 2, pl. 2 of Phyc., 1878.

2. summer form, l. c., pl. cit.

*Hab.*—Gulf St. ; Texas ; occasl. Kans.

190. **Tharos**, Dru.

1. winter form *MARCIA*, Edw., Tr. A. E. Soc., 2, 207, 1868 ;  
id., Can. Ent., 9, 1, 1877 \* ; id., But., 2, pl. 1 of Phyc.,  
1878 \* ; Grub., Jen. Zeitschr. Nat., 17, 477, pl. 8, figs.  
28, 29, 1884 \* ; Fern., But. Me., 47, 1884 \*.

2. summer form *MORPHEUS*, Fab., Syst. Ent., 550, 1775 ;  
Edw., But., 2, pl. 2 of Phyc., 1878 \*.

*Tharos*, Dru., 1, pl. 21, ♀, 1767 ; Bd.-Lec., p. 170, pl.  
47, ♂ (not ♀), 1833 ; Mead, Can. Ent., 7, 166, 1875  
\*.

*Coccyta*, Cram., 2, pl. 101, figs. A, B, ♂, 1779.

*Pharos*, Harr., 289, 1862.

aberr. *PACKARDII*, Saund., in Pack. Guide, 256, 1869 ; Edw.,  
But., 2, pl. 2 of Phyc., figs. 11, 12.

- (For experiments upon the effect of cold applied to chrysalids of  
*Tharos*, see Edw., Can. Ent., 9, pp. 4, 204, 1877.)  
*Hab.*—U. S. excluding Pac. St.; Br. Am. to Pac.; Ont.; Queb.;  
 N. Sco.; Antic.; So. Labr.
191. **Batesii**, Reak., Pr. E. Soc. Phil., 5, 226, 1865.  
*Tharos*, Bd.-Lec., 171, pl. 47, fig. 5, ♀, 1833.  
*Hab.*—W. Va.; Md.; N. Y. to Ohio.
192. **Pratensis**, Behr, Pr. Cal. Ac. N. Sci., 3, 86, 1863.  
 ♀, *Cumpestris*, Behr, l. c., 3, 86, 1863.  
*Pulchella*, Bd., Ann. Soc. Ent. Fr., 2, 10, 306, 1852.  
*Hab.*—Cala.; Oreg.; Ariz.
193. **Orseis**, Edw., Tr. A. E. Soc., 3, 206, 1871.  
*Hab.*—Cala.; W. Terr.; Oreg.  
 (perhaps winter form of *Pratensis*).
194. **Camillus**, Edw., Tr. A. E. Soc., 3, 268, 1871.  
 ♀, *Emissa*, Edw., l. c., 3, 269, 1871.  
*Hab.*—Col.; Mont.; Kans.  
 var. *PALLIDA*, Edw., Pr. E. Soc. Phil., 2, 505, 1864.  
 var. *MATA*, Reak, Pr. E. Soc. Phil., 6, 142, 1866; Str., Lep.,  
 pl. 8, fig. 11, 1874.  
*Hab.*—Col.; Mont.; Texas; Kans.
195. **Mylitta**, Edw., Pr. Ac. N. Sci. Phil., 1861, 160; Morr., 324,  
 1862; H. Edw., Pr. Cal. Ac. N. Sci., 5, 167, 1873 \*; Mead,  
 Rep. Wheeler Exp., 5, 764, 1875 \*.  
*Collina*, Behr, Pr. Cal. Ac. N. Sci., 3, 86, 1863.  
*Epula*, Bd., Lep. de la Cala., 54, 1869.  
*Hab.*—Cala.; W. Terr.; Ariz.; Col.; Utah.
196. **Montana**, Behr, Pr. Cal. Ac. N. Sci., 3, 85, 1863.  
*Orsa*, Bd., Lep. de la Cala., 55, 1869.  
*Hab.*—Cala.; Lake Tahoe, Nev.
197. **Picta**, Edw., ♂, Pr. E. Soc. Phil., 4, 201, 1865; id., ♀, Papilio,  
 2, 21, 1882; Str., Lep., pl. 8, fig. 10, 1874.  
 ♀, *Canace*, Edw., Tr. A. E. Soc., 3, 206, 1871.  
*Hab.*—Col.; N. Mex.; Ariz.; Neb.

**ERESIA**, Doubleday.

198. **Frisia**, Poey, Cent. Lep. Cuba, 9, pl. 2, 1832.  
*Gyges*, Hew., Ex. But., 3, pl. 6, Eres., figs. 45, 46, 1864.  
*Hab.*—Key West, Fla.
199. **Texana**, Edw., Pr. E. Soc. Phil., 2, 81, 1863; id., Can. Ent., 11, 127, 1879 \*.  
*Cincta*, Edw., l. c., 2, 502, 1864.  
*Smerdis*, Hew., Ex. But., 3, pl. 5, Eres., figs. 33, 34, 1864.  
*Hab.*—Texas; Neb.
200. **Punctata**, Edw., Tr. A. E. Soc., 3, 191, 1871.  
*Hab.*—Ariz.; N. Mex.

**SYNCHLOE**, Boisduval.

201. **Janaïs**, Dru., 3, pl. 17, figs. 5, 6, 1782.  
*Hab.*—Washita Valley, Texas.
202. **Mediatrix**, Feld., Reise Nov. Lep., 3, 395, 1867.  
*Saundersii*, Edw., Syn. (not Doubl.)  
*Hab.*—Texas.
203. **Adjutrix**, Seud., Buff. Bull., 2, 269, 1875.  
*Lacinia*, Edw., Syn. (not Hüb.)  
*Hab.*—Texas.
204. **Erodyle**, Bates, Ent. Mo. Mag., 1, 84, 1864.  
*Hab.*—Texas.
205. **Crocale**, Edw., Tr. A. E. Soc., 5, 17, 1874; Mead, Rep. Wheeler Exp., 5, 765, pl. 37, 1875.  
*Hab.*—Ariz.

**CYSTINEURA**, Doubleday.

206. **Amymone**, Mén., Cat. Mus. Petr., 123, pl. 9, 1857.  
*Dorcas*, Edw., Syn. (not Fab.)  
*Hab.*—Texas.

**GRAPTA**, Kirby.

207. **Interrogationis**, Fab.  
 1. dimorphic form **FARRICII**, Edw., Tr. A. E. Soc., 3, 5, 1870;  
 id., But., 1, 115, pl. 39, 1872 \*; id., Can. Ent., 14, 189  
 1882 \*.  
*Interrogationis*, Harr., fig. 124, ♀, 1862.

2. dimorphic form *UMBROSA*, Lintn., Tr. A. E. Soc., 2, 313, 1869; id., l. c., 197, 1870; Edw., But., 1, 111, pl. 38, 1872.

*Interrogationis*, Fab., ♀, Suppl., 424, 1798; Harr., 298 (text, not plate), 1862; Fern., But. Me., 49, 1884 \*.

*C. Aureum*, Cram., 1, pl. 19, figs. E, F, 1779; Sm.-Abb., pl. 11, 1797; Bd.-Lec., ♂, pl. 51, 1833.

(For experiments upon the effect of cold applied to chrysalids of

*Interrogationis*, see Edw., Psyche, 3, 15, 1880.)

*Hab.*—U. S., except Pac. St.; Ariz.; Ont.; Queb.; N. Sco.

208. **Comma**, Harr.

1. winter form *HARRISII*, Edw., Can. Ent., 5, 184, 1873.

*Comma*, Harr., 300, pl. 4, fig. 1, 1862; Lintn., Pr. E. Soc.

Phil., 3, 55, 1864 \*; Edw., But., 1, 101, pl. 36, 1871

\*; id., Can. Ent., 14, 189, 1882 \*; Fern., But. Me.,

5, 1884 \*.

2. summer form *DRYAS*, Edw., Tr. A. E. Soc., 3, 17, 1870;

id., But., 1, 109, pl. 37, 1871 \*.

*Hab.*—East., Mid., N. W. St.; N. C.; Tenn.; Kans. to Texas;

Ont.; Queb.; N. Sco.

209. **Satyrus**, Edw.

1. dimorphic form *SATYRUS*, Edw., Tr. A. E. Soc., 2, 374,

1869; id., But., 1, 121, pl. 40, 1872; H. Edw., Pr. Cal.

Ac. N. Sci., 5, 168, 1873 \*; Pears., Can. Ent., 7, 216, 1875

\*; Mead, Rep. Wheeler Exp., 5, 168, 1875.

2. dimorphic form *MARSYAS*, Edw., Tr. A. E. Soc., 3, 16,

1870; id., But., 2, pl. 3 of *Grapta*, 1879.

*Hab.*—Oreg.; Cal.; Mont.; Col.; N. Mex.; Br. Am.; Ont.;

Queb.

210. **Hylas**, Edw., Tr. A. E. Soc., 4, 68, 1872; id., But., 2, pl. 2 of

*Grapta*, 1875; Mead, Rep. Wheeler Exp., 5, 768, 1875.

*Hab.*—Col.

211. **Rusticus**, Edw., Tr. A. E. Soc., 5, 107, 1874; id., But., 2, pl.

3 of *Grapta*, 1879.

*Hab.*—Cal.; Vanc. Isld.

212. **Faunus**, Edw., Pr. Ac. N. Sci. Phil., 1862, 222; id., But., 1,

99, pl. 35, 1870; Caulf., Can. Ent., 7, 49, 1875 \*; Fern.,

But. Me., 52, 1884 \*.

*Hab.*—Mts. of N. E. and N. Y.; Mich.; Neb.; W. Terr.; Br. Am.; Atl. to Pac.; occasl. W. Va. to Ga.

213. **Silvius**, Edw., Tr. A. E. Soc., 5, 108, 1874.

*Hab.*—Cala.

214. **Zephyrus**, Edw., l. c., 3, 16, 1870; id., But., 1, 123, pl. 40, 1872; id., l. c., 2, pl. 3 of *Grapta*, 1879 \*; H. Edw., Pr. Cal. Ac. N. Sci., 5, 169, 1873 \*; Mead, Rep. Wheeler Exp., 5, 769, 1875.

*Hab.*—Mont.; Nev. to N. Mex.; Ariz.; Utah; Cala; Oreg.

215. **Gracilis**, Gr.-Rob., Ann. N. Y. Lyc. N. Hist., 8, 432, 1867; Str., Lep., pl. 8, fig. 14, 1874.

*Hab.*—White Mts., N. H.; Queb.; Br. Am.; Alaska.

216. **Silenus**, Edw.

1. dimorphic form **SILENUS**, Edw., Tr. A. E. Soc., 3, 15, 1870; id., But., 2, pl. 1 of *Grapta*, 1874.

2. dimorphic form **OREAS**, Edw., Tr. A. E. Soc., 2, 373, 1869; id., l. c., 5, 109, 1874.

*Hab.*—Cala.; W. Terr.; Vanc. Isld.; Mont.

217. **Progne**, Cram., 1, pl. 5, figs. E, F, 1775; Bd.-Lec., 188, pl. 50, 1833; Harr., 301, 1862; Lintn., Pr. E. Soc. Phil., 3, 58, 1864 \*; Edw., Can. Ent., 11, 9, 1879 \*; Fern. But. Me., 53, 1884 \*.

*C. Argenteum*, Kirby, Faun. Bor. Am., 4, 292, pl. 3, figs. 6, 7, 1837.

*Hab.*—North. and West. St.; Br. Am. to N. Sco.; Antic.

218. **J. Album**, Bd.-Lec., 185, pl. 50, 1833; Harr., 298, 1862; Lintn., Pr. E. Soc. Phil., 3, 58, 1864 \*; Fern., But. Me., 54, 1884 \*.

*Hab.*—North. St. to Wis.; Br. Am., Pac. to Nov. Sco.; So. Labr.

#### **VANESSA**, Fabricius.

219. **Antiopa**, Linn., Syst. Nat., 1, 2, 776, 1767; Bd.-Lec., 173, 1833; Harr., 296, figs. 121, 122, 1862 \*; Lintn., Pr. E. Soc. Phil., 3, 59, 1864; Saund., Can. Ent., 1, 75, 1869 \*; Fern., But. Me., 55, 1884 \*.

var. — Bunker, Can. Ent., 8, 240, 1876.

aberr. **LINTNERII**, Fitch, third Rep. N. Y. St. Ag. Soc., 485, 1856.

*Hab.*—North Am. generally.

220. **Californica**, Bd., Ann. Soc. Ent. Fr., 2, 10, 306, 1852; Morr., 58, 1862; Behr, Pr. Cal. Ac. N. Sci., 3, 123, 1864; H. Edw., l. c., 5, 171, 1875 \*.

*Hab.*—Cala.; Oreg.; Nev.; Colo.

221. **Milbertii**, Godt., Enc. Meth., 9, 307, 1819; Bd.-Lec., 187, pl. 50, 1833; Harr., 302, fig. 125, 1862; Lintn., Pr. E. Soc. Phil., 3, 61, 1864 \*; Saund., Can. Ent., 1, 76, 1869 \*; H. Edw., Pr. Cal. Ac. N. Sci., 5, 170, 1873 \*; Fern., But. Me., 56, 1884 \*.

*Furcillata*, Say, Am. Ent., 2, pl. 27, 1825.

*Hab.*—North. St. to Mont.; Col.; Ariz.; Pac. St.; Br. Am. to N. Sco.; N. F'land.

#### **PYRAMEIS**, Doubleday.

222. **Atalanta**, Linn., Syst. Nat., 1, 2, 779, 1767; Esper, Eur. Schmett., 1, pl. 14, 1777; Harr., 294, fig. 120, 1862 \*; Birch., Ent. Mo. Mag., 13, 209, 1878 \*; Edw., Can. Ent., 14, 229, 1882 \*; Fern., But. Me., 57, 1884 \*.

Hybrid bet. *Atalanta* and *Carye*, H. E., Pr. Cal. Ac. N. Sci., 1876.

*Hab.*—N. Am. generally.

223. **Huntera**, Fab., Syst. Ent., 499, 1775; Sm.-Abb., pl. 9, 1797 \*; Bd.-Lec., 180, pl. 48, 1833 \*; Harr., 292, fig. 119, 1862 \*; Lintn., Pr. E. Soc. Phil., 3, 63, 1864 \*; Saund., Can. Ent., 1, 105, 1869 \*; Fern., But. Me., 58, 1884 \*.

*Hab.*—N. Am. generally.

224. **Cardui**, Linn., Syst. Nat., 1, 2, 774, 1767; Esper, Eur. Schmett., 1, pl. 10, 1777; Bd.-Lec., 178, 1833; Saund., Can. Ent., 1, 93, 1869 \*; Scud., Am. Nat., 10, 392, 602, 1876 \*; Fern., But. Me., 59, 1884 \*.

var. **ATE**, Str., Cat., 137, 1878.

*Hab.*—N. Am. generally.

225. **Carye**, Hüb., Samml. Ex. Schmett., 1, 1806–1816; Behr, Pr. Cal. Ac. N. Sci., 3, 125, 1864 \*; H. Edw., l. c., 5, 329, 1874 \*.

Hybrid bet. *Carye* and *Atalanta*, H. Edw., Pr. Cal. Ac. N. Sci., 1876.

*Hab.*—Cala. to Chili.; Ariz.; Nev.

**JUNONIA**, Doubleday.

226. **Cœnia**, Hüb., Samml. Ex. Schmett., 2, 1816-1824; Bd.-Lec., 182, pl. 49, 1832 \*; Morr., 61, 1862; Sprague, Can. Ent., 12, 100, 1880; Fern., But. Me., 60, 1884 \*.

*Lavinia*, Harr. (not Cram.), 293, 1862.

var. **ORYTHIA**, Sm.-Abb., pl. 8, 1797 \*.

*Hab.*—Mid. and South. St. to Pac.; occasl. Mass.; Me.; Ont.

227. **Genoveva**, Cram., 4, pl. 290, figs. E, F, 1782.

*Hab.*—Ariz. southward.

**ANARTIA**, Doubleday.

228. **Jatrophæ**, Linn., Mus. Lud. Ulr., 289, 1764; Cram., 3, pl. 202, figs. E, F, 1782; Morr., 62, 1862.

*Hab.*—Texas; Fla.

**EUREMA**, Boisduval.

229. **Lethe**, Fab., Ent. Syst., 3, 80, 1793; Don., Ins. Ind., pl. 23, fig. 1, 1800.

*Hab.*—Texas, occasl.

**EUNICA**, Felder.

230. **Monima**, Cram., 4, 387, figs. F, G, 1782.

*Hyperipte*, Edw., Syn. (not Hüb.)

*Hab.*—Texas; Fla.

**TIMETES**, Boisduval.

231. **Coresia**, Godt., Enc. Meth., 9, 359, 1823; Edw., Pr. Ent. Soc. Phil., 1, 224, 1862.

*Hab.*—Texas, occasl.

232. **Petreus**, Cram., 1, 87, figs. D, E, 1779.

*Eleucha*, Edw., Syn. (not Hüb.)

*Hab.*—Indian River, Fla. (by Wittfeld)

233. **Eleucha**, Doubl.-Hew., Gen. Di. Lep., pl. 23, fig. 3, 1847.

*Hab.*—Texas, occasl.

234. **Chiron**, Fab., Syst. Ent., 452, 1775.

*Marius*, Cram., 3, pl. 200, figs. D, E, 1780.

*Hab.*—Texas, occasl.



**DIADEMA**, Boisduval.\*

235. **Misippus**, Linn., Mus., Ulr., 264, 1764; id., Syst. Nat., 1, 2, 767, 1767.

♂ *Bolina*, Dru. (not Linn.) 1, pl. 14, 1773; Edw., Papilio, 1, 30, 1881.

*Hab.*—Indian River, Fla., occasl. (by Wittfeld.)

**LIMENITIS**, Fabricius.

236. **Ursula**, Fab., Ent. Syst., 3, 82, 1793; Sm.-Abb., pl. 10, 1797 \*; Bd.-Lec., 199, pl. 53, 1833 \*; Edw., Can. Ent., 13, 242, 1881 \*.

*Astyanax*, Fab., Syst. Ent., 447, 1775.

*Ephestion*, Stoll., Suppl. Cram., pl. 25, 1790; Harr., 283, 1862 \*.

*Hab.*—Atl. St.; Miss. Valley; Kans.; Ont.

var. **ARIZONENSIS**, Edw., Papilio, 2, 22, 1882.

*Hab.*—Ariz.

237. **Arthemis**, Dru.

1. dimorphic form **LAMINA**, Fab., Ent. Syst., 3, 118, 1793; Edw., But., 2, pl. 1 of Limen., 1879.

*Arthemis*, Dru., 2, 10, 1773; Say, 2, 23, 1825; Bd.-Lec., 202, pl. 54, 1833; Harr., 283, pl. 1, 1862; Sprague, Can. Ent., 12, 100, 1880; Fern., But. Me., 60, 1884 \*.

aberr. C, Edw., Papilio, 2, 47, 1882.

2. dimorphic form **PROSERPINA**, Edw., Pr. E. Soc. Phil., 5, 148, 1865; id., Tr. A. E. Soc., 1, 285, pl. 4, 1867; id., Can. Ent., 5, 232, 1873, 9, 114, 1877 \*; l. c., 13, 237, 1880; id., But., 1, 127, pl. 41, 1868; l. c., 2, pl. 1 of Limen., 1879 \*.

*Hab.*—North. U. S.; Br. Am. to Fort Simpson; Br. Col.; Ont.; Queb.; N. Sco.

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\* It is true, the name **DIADEMA** is pre-occupied (in Crustacea), and by Rule 10, Zool. Nom., should be changed; but the only name as yet suggested is *Hypolimnas*, used by Kirby, Cat., and called *Hypolimnas*, Hübner. That will not do at all. The name was one of Hübner's coitus names, and a coitus is not a genus. It is used by Hübner for a group of which "the fore wings are white spotted, the hind wings pale banded," and this does not apply to *Misippus*; and finally Kirby has not "clearly defined" it, as Rule 12 says must be done to make a genus name admissible. Had he defined it, it would have been *Hypolimnas* Kirby, not Hübner. So I retain *Diadema*.

238. **Weidemeyerii**, Edw., Pr. Ac. N. Sci. Phil., 1861, 162; id., But., 1, 129, pl. 42, 1869; Morr., 527, 1862; Mead, Rep. Wheeler Exp., 5, 770, pl. 38, 1875.

*Hab.*—Rocky Mts., Mont. to N. Mex.; Ariz.; Utah; Fort Niobrara, Neb.

aberr. **SINE-FASCIA**, Edw., Papilio, 2, 22, 1882.

*Hab.*—Ariz.

239. **Disippus**, Godt., Enc. Meth., 9, 393, 1823; Bd.-Lec., 204, pl. 55, 1833 \*; Harr., 281, fig. 109, 1862; Lintn., Pr. E. Soc. Phil., 3, 63, 1864 \*; Riley, third Mo. Ent. Rep., 153, 1871 \*; id., Can. Ent., 3, 52, 1871 \*; Edw., Can. Ent., 11, 224, 1879 \*; Fern., But. Me., 63, 1884 \*.

aberr. Edw. (from effect of cold), Psyche, 3, 174, 1881.

*Misippus*, Pack. (not Linn.), Guide, 261, fig. 189, 1869.

*Hab.*—U. S. generally; Ont. to N. Sco.; Br. Am. to lat. 52°.

var. **FLORIDENSIS**, Str., Cat., 143, 1878 (see Str., Can. Ent., 13, 29, 1881; Mead, l. c., 13, 79, 1881; Edw., Papilio, 4, 62, 1884).

*Hab.*—South. St.; Ill.

aberr. — Mead, ♀, Can. Ent., 4, 217, 1872.

**PSEUDODORIPPUS**, Str., Cat., 143, 1878.

*Hab.*—Catskill Mts., N. Y.

240. **Eros**, Edw., Can. Ent., 12, 246, 1880 \*; id., But., 2, pl. 2 of Limen., 1883 \*.

*Hab.*—Fla.; Ga.

var. **OBSOLETA**, Edw., 2, 22, 1882.

*Hab.*—Ariz.

241. **Hulstii**, Edw., Papilio, 2, 46, 1882.

*Hab.*—Utah.

242. **Lorquini**, Bd., Ann. Ent. Soc. Fr., 2, 10, 301, 1852; Morr., 66, 1862; Edw., But., 1, 131, pl. 43, 1870; Mead, Rep. Wheeler Exp., 5, pl. 38, 1875; H. Edw., Pr. Cal. Ac. N. Sci., 5, 330, 1874.

*Hab.*—Cala. to W. Terr.; Ariz.; Nev.; Vanc. Isld.; Br. Am., Crow's Nest (by Geddes).

**HETEROCHROA**, Boisduval.

243. **Californica**, Butl., Pr. Zool. Soc. Lond., 485, 1865; Mead, Rep. Wheeler Exp., 5, 770, pl. 38, 1875; H. Edw., Pr. Cal. Ac. N. Sci., 5, 171, 1873 \*.

*Eulalia*, Doubl.-Hew., Gen. Di. Lep., pl. 36, fig. 1, 1850;  
Edw., Pr. Ac. N. Sci. Phil., 225, 1862; Behr, Pr. Cal.  
Ac. N. Sci., 3, 127, 1864.

*Bredowii*, Edw. (not Hüb.), But., 1, 133, pl. 44, 1870.

*Hab.*—Cala.; Ariz.; Nev.

**APATURA**, Fabricius.

244. **Celtis**, Bd.-Lec., 210, pl. 57, 1833; Edw., But., 2, pl. 1 of Apat., 1875 \*.

*Lycuon*, Riley (not Fab.), sixth Mo. Ent. Rep., 137, 1874 \*.

*Hab.*—Va. to Gulf Mex.; Miss. Valley.

245. **Antonia**, Edw., Field and Forest, 3, 103, 1877.

*Hab.*—Texas.

var. **MONTIS**, Edw., Papilio, 2, 7, 1882.

*Hab.*—Ariz.; Col.

246. **Leilia**, Edw., ♂, Tr. A. E. Soc., 5, 103, 1874; id., ♂, But., 2, pl. 1 of Apat., 1875; id., ♀, Papilio, 2, 23, 1882.

*Hab.*—Ariz.

247. **Alicia**, Edw., But., 1, 135, pl. 45, 1868; id., Psyche, 3, 123, 1880 \*.

*Hab.*—Gulf St., Fla. to Texas.

248. **Clyton**, Bd.-Lec., 208, pl. 56, 1833.

*Herse*, Riley (not Fab.), sixth Mo. Ent. Rep., 140, 1874 \*.

1. dimorphic form **PROSERPINA**, Scud., Tr. Ac. N. Sci. Chic., 1, 332, 1869; Edw., But., 2, pl. 2 of Apat., 1876.

2. dimorphic form **OCELLATA**, Edw., l. c., pl. cit., 1876.

*Hab.*—N. Y. to Gulf Mex.; Miss. Valley; Kans.

249. **Flora**, Edw., But., 2 (in *Clyton*), 1876; id., Can. Ent., 13, 81, 1881 \*.

*Hab.*—Fla.; Texas.

250. **Cocles**, Lintn. MSS.

*Hab.*—Rio Grande, Texas.

**PAPHIA**, Westwood.

251. **Troglodyta**, Fab., Syst. Ent., 502, 1775.

*Astinax*, Cram., 4, 337, figs. A, B, 1782.

*Glycerium*, Edw. (not Doubl.), But., 1, 137, pl. 46, 1871

\*; Riley, second Mo. Ent. Rep., 125, 1870 \*.

*Andria*, Scud., Buff. Bull., 2, 248, 1875.

*Hab.*—West. St., from Ill. to Texas; Neb.

252. **Morrisonii**, Edw., Papilio, 3, 8, 1883.

*Hab.*—Mt. Graham, Ariz.; Mex.

## SATYRINÆ.

**DEBIS**, Westwood.

253. **Portlandia**, Fab., Sp. Ins., 2, 82, 1781; Bd.-Lec., 226, pl. 58, 1833; Edw., Can. Ent., 14, 84, 1882 \*; Fern., But. Me., 70, 1884 \*.

*Andromacha*, Hüb., Samml. Ex. Schmett., 1, 1806–1816;

Morr., 78, 1862.

*Hab.*—Me. to Rocky Mts. and to Gulf Mex.; Br. Am. to Lat. 50°.

**NEONYMPHA**, Westwood.

254. **Canthus**, Bd.-Lec., pl. 60, 1833; Morr., 74, 1862; Edw., Can. Ent., 15, 64, 1883 \*.

*Boisduvalli*, Harr., 305, fig. 128, 1862; Fern., But. Me., 68, 1884 \*.

*Hab.*—North. States; Ont.; Queb.

255. **Gemma**, Hüb., Zutr., Ex. Schmett., 1, figs. 7, 8, 1818; Bd.-Lec., pl. 62, 1833 \*; Morr., 73, 1862; Edw., Can. Ent., 11, 31, 1879 \*.

*Hab.*—W. Va. to Gulf Mex.

256. **Henshawii**, Edw., Tr. A. E. Soc., 5, 205, 1876; id., l. c., 9, 7, 1881.

*Hab.*—Ariz.; So. Col.; N. Mex.

257. **Areolatus**, Sm.-Abb., 1, pl. 13, 1797 \*; Bd.-Lec., pl. 63, 1833 \*; Morr., 74, 1862; Edw., Can. Ent., 14, 163, 1882 \*.

*Hab.*—Gulf St.; occasl. N. J.

258. **Eurytris**, Fab., Ent. Syst., 3, 157, 1793; Bd.-Lec., pl. 61, 1833  
 \*; Morr., 73, 1862; Harr., 306, fig. 129, 1862; Saund., Can.  
 Ent., 2, 139, 1870 \*; Edw., Can. Ent., 10, 125, 1878 \*;  
 Fern., But. Me., 66, 1884 \*.  
*Hab.*—Atl. St.; Miss. Valley; Neb.; Ont.; Queb.
259. **Sosybius**, Fab., Ent. Syst., 3, 219, 1793; Bd.-Lec., pl. 63, 1833  
 \*; Morr., 74, 1862; Edw., Can. Ent., 9, 229, 1877 \*.  
*Hab.*—Mid. and South. St.; Miss. Valley.
260. **Rubricata**, Edw., Tr. A. E. Soc., 3, 212, 1871.  
*Hab.*—Texas; Ariz.

### **CEENONYMPHA**, Westwood.

261. **California**, West.-Hew., Gen. Di. Lep., 398, pl. 67, 1851.  
*Californius*, Bd., Ann. Soc. Ent. Fr., 2, 10, 309, 1852.  
 var. **CERES**, Butl., Ent. Mo. Mag., 3, 78, 1866.  
 var. **GALACTINUS**, Bd., l. c., 2, 10, 309, 1852.  
 var. **ERYNGII**, H. Edw., Pr. Cal. Ac. N. Sci., 6, 1877.  
 var. **PULLA**, H. Edw., Papilio, 1, p. 51, 1881.  
*Hab.*—Cala; Mont.
262. **Elko**, Edw., Can. Ent., 13, 57, 1880.  
*Hab.*—Elko, Nev.; Spokane Falls, W. Terr.
263. **Inornata**, Edw., Pr. Ac. N. Sci. Phil., 1861, 163; Morr., 328,  
 1862.  
*Hab.*—Mont.; Br. Am.; N. F'land.
264. **Ochracea**, Edw., l. c., 1861, 163; Morr., 328, 1862.  
*Hab.*—Mont. to Ariz.; Kans.; Br. Am.
265. **Ampelos**, Edw., Tr. A. E. Soc., 3, 213, 1871.  
*Hab.*—Oreg.; W. Terr.; Nev.; Mont.
266. **Kodiak**, Edw., l. c., 2, 375, 1869.  
*Hab.*—Kodiak, Alaska.
267. **Brenda**, Edw., l. c., 2, 375, 1869.  
*Hab.*—Los Angeles, Cala.
268. **Pamphiloides**, Reak., Pr. E. Soc., Phil., 6, 146, 1866.  
*Hab.*—Cala.; Br. Am.

**EREBIA**, Dalman.

269. **Fasciata**, Butl., Cat. Satyr., Br. Mus., 92, pl. 2, fig. 8, 1868.  
*Hab.*—Alaska; Boreal Am.
270. **Discoidalis**, Kirby, Faun. Bor. Am., 4, 298, pl. 3, figs. 2, 3,  
 1837; Morr., 75, 1862.  
*Hab.*—Boreal Am.
271. † **Vesagus**, Doubl.-Hew., Gen. Di. Lep., 380, pl. 64, 1851.  
*Hab.*—Br. Am. (loc. unknown)
272. **Rossii**, Curt., App. Ross. Exp., 67, pl. A, fig. 7, 1835.  
*Hab.*—Boreal Am.
273. **Disa**, Thunb.  
 var. **MANCINUS**, Doubl.-Hew., Gen. Di. Lep., 380, pl. 54,  
 1851.  
*Hab.*—Alaska; Rocky Mts., Br. Am.
274. **Haydenii**, Edw., Rep. Hayden Exp., 1872, 467; id., Tr. A. E.  
 Soc., 5, 19, 1874.  
*Hab.*—Mont.
275. **Tyndarus**, Esp.  
 var. **Callias**, Edw., Tr. A. E. Soc., 3, 274, 1871; Mead, Rep.  
 Wheeler Exp., 5, 775, 1875.  
*Hab.*—Col.; N. Mex.
276. **Epipsodea**, Butl., Cat. Satyr. Br. Mus., 80, pl. 2, 1868.  
*Rhodia*, Edw., Tr. A. E. Soc., 3, 273, 1871.  
*Hab.*—Col.; N. Mex.; Mont.; W. Terr.; Br. Am.; St. Michaels,  
 Alaska.
277. † **Sofia**, Str., Br. Bull., 3, 35, 1880.  
*Hab.*—Fort Churchill, Br. Am.
278. † **Magdalena**, Str., l. c., 3, 35, 1880.  
*Hab.*—Col.

**GEIROCHEILUS**, Butler.

279. **Tritonia**, Edw., Tr. A. E. Soc., 5, 18, 1874.  
*Hab.*—So. Ariz.

**HIPPARCHIA**, Fabricius.

280. **Ridingsii**, Edw., Pr. E. Soc. Phil., 4, 201, 1865; Str., Lep.,  
 pl. 4, fig. 6, ♀, 1873; Mead, Rep. Wheeler Exp., 5, 774, 1875.  
*Stretchii*, Edw. (Chion.), Tr. A. E. Soc., 3, 192, 1870.  
*Hab.*—Col.; Nev.; Mont.

281. **Dionysius**, Scud., Hayden Bull., 4, 254, 1878.

*Ashteroth*, Str., Lep., Pt. 14, 129, 1878.

*Hab.*—Utah.

### **SATYRUS**, Westwood.

#### Group I.

282. **Pegala**, Fab., Syst. Ent., 494, 1775; Morr., 77, 1862; Edw.,

Pr. E. Soc. Phil., 6, 195, 1866; id., Can. Ent., 12, 51, 1880.

*Pegale*, Smith, Br. Bull., 6, 128, 1884.

*Hab.*—Gulf St.; occasl. to N. J., on coast; Mt. Holly, N. J.

283. **Alope**, Fab.

1. dimorphic form **ALOPE**, Fab., Ent. Syst., 3, 229, 1793;

Bd.-Lec., 228, pl. 59, 1833; Harr., 305, fig. 127, 1862;

Edw., Pr. E. Soc. Phil., 6, 196-200, 1866; id., Can. Ent.,

12, 24, 1880 \*; id., But., 2, pl. 2 of Satyr., 1882 \*;

Smith, Br. Bull., 6, 127, 1884; Fern., But. Me., 72, 1884

\*

*Hab.*—N. Y. to N. C.; N. Bruns.

var. **TEXANA**, Edw., Can. Ent., 12, 24, 1880; id., But., 2, pl.

cit., 1882.

*Hab.*—Texas.

var. **MARITIMA**, Edw., Can. Ent., 12, 23, 1880; id., But., 2,

pl. cit., 1882.

*Hab.*—Martha's Vineyard; L. I.; east N. J.; Grand Manan Island,

N. B. (by Lyman)

2. dimorphic form **NEPHELE**, Kirby, Faun. Bor. Amer., 4,

297, 1837; Edw., Can. Ent., 12, 21, 1880 \*; id., But.,

2, pl. 3 of Satyr., 1882 \*; Smith, Br. Bull., 6, 129, 1884.

*Hab.*—Ont.; Queb.; Br. Am.; N. E.; N. Y.

var. **OLYMPUS**, Edw., Can. Ent., 12, 31, 1880; id., But. 2,

pl. 3 of Satyr., 1882 \*.

*Hab.*—Ill. to Rocky Mts.; Br. Am.

var. **BOÖPIS**, Behr, Pr. Cal. Ac. N. Sci., 3, 164, 1863; Edw.,

Can. Ent., 12, 54, 1880.

*Hab.*—Cal. to W. Terr.

sub. var. **INCANA**, Edw., Can. Ent., 12, 91, 1880.

*Hab.*—W. Terr.

284. **Ariane**, Bd., Ann. Soc. Ent. Fr., 2, 10, 307, 1852; Morr., 77, 1862; Edw., Can. Ent., 12, 90, 1880.  
*Hab.*—Cal.; Weber Mts., Utah.
285. **Baroni**, Edw., Can. Ent., 12, 91, 1880.  
*Hab.*—North. Cal.
286. **Paulus**, Edw., Can. Ent., 11, 50, 1879; id., l. c., 12, 54, 1880; Smith, Br. Bull., 6, 132, 1884.  
*Hab.*—Cal.; Sierra Nev., San Bern.; Nev.
287. **Gabbii**, Edw., Tr. A. E. Soc., 3, 193, 1870; id., Can. Ent., 12, 92, 1880.  
*Hab.*—Oreg.; Weber Mts., Utah.
288. **Wheelerii**, Edw., Tr. A. E. Soc., 4, 343, 1873; id., But., 2, pl. 1 of Satyr., 1877; Mead, Rep. Wheeler Exp., 5, 751, pl. 39, 1875.  
*Hoffmani*, Str., Lep., pl. 4, ♀, 1873, pl. 8, ♂, 1874.  
*Hab.*—Apache, Ariz.; Owen's Lake, So. Cal.; So. Utah.
289. **Meadii**, Edw., Tr. A. E. Soc., 4, 70, 1872; id., Can. Ent., 12, 94, 1880; Mead, Rep. Wheeler Exp., 5, 774, 1875; Smith, Br. Bull., 6, 131, 1884.  
*Hab.*—Mont. to Ariz.
290. **Silvestris**, Edw., Pr. Ac. N. Sci. Phil., 1861, 162; Morr., 327, 1862.  
*Phocus*, Edw., Tr. A. E. Soc., 5, 14, 1875.  
*Hab.*—Cal.; Br. Col.
291. **Oetus**, Bd., Lep. de la Cal., 63, 1869.  
*Silvestris*, Edw., Can. Ent., 12, 93, 1880.  
*Hab.*—North. Cal.
292. **Charon**, Edw., Tr. A. E. Soc., 4, 69, 1872; id., Can. Ent., 12, 94, 1880; Mead, Rep. Wheeler Exp., 5, 773, 1875 \*.  
*Hab.*—N. Mex. to Mont.; Br. Am.

## Group II.

293. **Sthenele**, Bd., Ann. Soc. Ent., Fr., 2, 10, 308, 1852; Morr., 77, 1862; Edw., Can. Ent., 12, 92, 1880.  
*Hab.*—San Francisco (believed to be now extinct).



**CHIONOBAS**, Boisduval.**Group I.**

294. **Gigas**, Butl., Cat. Satyr., Br. Mus., 161, pl. 2, 1868; Edw., But., 2, pl. 1 of Chion., ♀, 1874, pl. 2, ♂, 1875.  
*Hab.*—Vanc. Isld.
295. **Iduna**, Edw., But., 2, pl. 1 of Chion., 1874.  
*Hab.*—Mendocino, Cal.
296. **Californica**, Bd., Lep. de la Cal., 62, 1869; Edw., But. 2, pl. 2 of Chion., 1875.  
*Hab.*—Mt. Hood, Oreg.
297. † **Nevadensis**, Feld., Reise Nov. Lep., 3, 89, pl. 69, 1867.  
*Hab.*—Cal.
298. **Chryxus**, West.-Hew., Gen. Di. Lep., 383, pl. 64, 1851; Mead, Rep. Wheeler Exp., 5, 777, 1875.  
*Hab.*—Col. to Br. Am., Rocky Mts.
299. **Calais**, Scud., ♀, Pr. E. Soc. Phil., 5, 7, 1865; Edw., Can. Ent., 15, 44, 1883.  
*Tuygete*, Edw. (not Hüb.), Pr. Ac. N. Sci. Phil., 1862, 57.  
*Hab.*—Rupert House, Hudson's Bay; N. F'land.
300. **Ivalda**, Mead, Can. Ent., 10, 196, 1878; Edw., But., 2, pl. 4 of Chion., 1879.  
*Hab.*—Nev.; East. Cal.

**Group II.**

301. **Varuna**, Edw., Can. Ent. 14, 2, 1882.  
*Hab.*—Dak.; Calgary, Br. Am. (by Geddes)
302. **Uhleri**, Reak., Pr. E. Soc. Phil., 6, 143, 1866; Str., pl. 4, fig. 5, ♂, 1873; Mead, Rep. Wheeler Exp., 5, 776, 1875.  
*Hab.*—Col.; Mont.
303. † **Tarpeia**, Esp., Eur. Schmett., 1, pl. 83, 1783; Butl., Cat. Satyr., Br. Mus., 161, 1868.  
*Hab.*—Arctic Am. (auct. Butler)

**Group III.**

304. **Taygete**, Hüb., Samml. Ex. Schmett., 1816-1824; Möschl., Wien. Ent. Monat., 7, 213, 1863.  
*Bootes*, Bd., Icon., 191, pl. 37, 1862.  
*Hab.*—Lab.; Alaska.

305. **Jutta**, Hüb., Eur. Schmett., 1, figs. 614, 615, 1800–1823; Scud., Pr. E. Soc. Phil., 5, 3, 1865; Fern., But. Me., 75, 1884.  
*Balder*, Hüb., Zutr. Ex. Schmett., figs. 981, 982, 1837;  
 Bd., Icon., pl. 39, 1832.  
*Hab.*—Queb.; Hudson's Bay; Lab.; Orono, Me.
306. **Semidea**, Say, Am. Ent., 3, pl. 50, 1828; Harr., 304, fig. 126, 1862; Scud., Pr. Bost. Soc. N. Hist., 7, 221, pl. 14, 1863 \*;  
 id., Pr. E. Soc. Phil., 5, 20, 1865.  
*Oeno*, Bd., Icon., 195, pl. 39, 1832.  
*Also*, Bd., l. c., 197, pl. 40, 1832.  
*Hab.*—White Mts., N. H.; Labr.; Ungava Bay; Quickstep Harbor, Gulf of Cumberland.
307. **Crambis**, Frey., Neu. Beitr., 5, 99, pl. 400, 1845.  
*Also*, Müschl. (not Bd.), Wien. Ent. Monat., 7, 205, 1863.  
*Oeno*, Scud. (not Bd.), Pr. E. Soc. Phil., 5, 13, 1865.  
*Assimilis*, Butl., Cat. Satyr. Br. Mus., 163, pl. 2, fig. 10, 1868.  
*Semidea*, Mead (not Say), Rep. Wheeler Exp., 5, 776, 1875.  
*Hab.*—Labr.; Boreal Am.; Alaska; Col.; N. Mex.
308. **Subhyalina**, Curt., App. Ross Exp., 68, 1835.  
*Hab.*—Arctic Am.

## LIBYTHEINÆ.

**LIBYTHEA**, Fabricius.

309. **Bachmanni**, Kirtl., Sill. Jl., 2, 13, 336, 1852; Saund., Can. Ent., 1, 25, fig. 1, 1868; Edw., But., 2, pl. 1 of Liby., 1874 \*;  
 id., Can. Ent., 13, 226, 1881 \*.  
*Hab.*—Atl. St.; Miss. Valley; Texas; Ariz.; Ont.
310. **Carinenta**, Cram., 2, 108, figs. E, F, 1779.  
*Larvata*, Str., Lep., Pt. 14, 1878.  
*Hab.*—Texas; N. Mex.; Ariz.

## ERYCINIDÆ.

## ERYCININÆ.

**LEMONIAS**, Westwood.

## Group I.

311. **Mormo**, Feld., Wien. Ent. Monat., 3, 271, 1859; id., Reise Nov., Lep., 2, 303, pl. 37, 1865; Morr., 104, 1862.

*Dumeti*, Behr., Pr. Cal. Ac. N. Sci., 3, 178, 1865.

*Mormonia*, Bd., Lep. de la Cala., 52, 1869.

*Hab.*—Cal.; Utah; Ariz.; N. Mex.

312. **Duryi**, Edw., Papilio, 2, 47, 1882.

*Hab.*—N. Mex.

313. **Cythera**, Edw., Tr. A. E. Soc., 4, 345, 1873; Mead, Rep. Wheeler Exp., 5, 786, p. 36, 1875.

*Hab.*—Ariz.

314. **Virgulti**, Behr., Pr. Cal. Ac. N. Sci., 3, 178, 1865.

*Sonorensis*, Feld., Reise Nov., Lep., 2, 303, 1865.

*Hab.*—So. Cal.

315. **Nais**, Edw. (*Chrysophanus*), Tr. A. E. Soc., 5, 291, 1876; id., But., 2, pl. 1 of Lemon., 1883.

*Hab.*—Ariz.; N. Mex.; Col.

316. **Palmerii**, Edw., Tr. A. E. Soc., 3, 195, 1870; id., But., 2, pl. 1 of Lemon., 1883.

*Hab.*—Utah; Ariz.

#### Group II.

317. **Ares**, Edw., Papilio, 2, 136, 1882.

dimorphic form **CLEIS**, Edw., l. c., 2, 137, 1882.

*Hab.*—So. Ariz.

#### **EURYGONA**, Boisduval.

318. **Abreas**, Edw., Tr. A. E. Soc., 9, 3, 1881.

*Hab.*—So. Ariz.

#### **CALEPHELIS**, Grote and Robinson.

319. **Cænius**, Linn., Syst. Nat., 1, 2, 796, 1767.

*Pumila*, Bd.-Lec., 131, pl. 37, 1833; Morr., 104, 1862.

*Hab.*—South. St.

320. **Borealis**, Gr.-Rob., Ann. N. Y. Lyc. N. Hist., 8, 351, 1866.

*Hab.*—N. Y.; N. J.; W. Va.; Mich.; Ill.

321. **Australis**, Edw., Field and Forest, 3, 87, 1877.

*Guadeloupe*, Str., Lep., Pt. 14, 1878.

*Hab.*—So. Texas; Ariz.

322. **Nemesis**, Edw., Tr. A. E. Soc., 3, 212, 1871.

*Hab.*—Ariz.; So. Cal.

**EUMENIA**, Latreille.

323. **Atala**, Poey, Cent. Lep. Cuba, pl. 2, 1832; Scud., Mem. Bost. Soc. N. Hist., 413, pl. 14, 1875.

*Toxoa*, Gray, Griff. Anim. Kingd., 15, pl. 43, 1833.

*Hab.*—Fla.

**LYCÆNIDÆ.****LYCÆNINÆ.****THECLA**, Fabricius.**Group I.**

324. **Grunus**, Bd., Ann. Soc. Ent. Fr., 2, 10, 289, 1852; id., Lep. de la Cal., 43, 1869.

*Hab.*—No. and So. Cal.; Nev.

**Group II.**

325. **Chrysalus**, Edw., Tr. A. E. Soc., 4, 344, 1873.

var. *CITIMA*, H. Edw., Papilio. 1. 53, 1881.

*Hab.*—So. Col.

326. **Halesus**, Cram., 2, 98, figs. B, C, 1779; Bd.-Lec., 83, pl. 25, 1833 \*; Morr., 91, 1862.

*Dolichos*, Hüb., Zutr. Ex. Schmett., figs. 219, 220, 1823.

*Juanita*, Scud., Pr. Bost. Soc. N. Hist., 11, 435, 1868.

*Hab.*—Gulf St.; Ill.; Nev.; Cal.; Ariz.

327. **M Album**, Bd.-Lec., 86, pl. 26, 1833 \*; Morr., 92, 1862.

*Psyche*, Bd.-Lec., 88, pl. 27, 1833.

*Hab.*—Gulf St.; Va.; Pa.; Ohio.

**Group III.**

328. **Favonius**, Sm.-Abb., 1, pl. 14, 1797 \*.

*Hab.*—Gulf St.; S. C.

329. **Autolycus**, Edw., Tr. A. E. Soc., 3, 271, 1871.

*Hab.*—Texas; Mo.

330. **Alcestis**, Edw., l. c., 3, 271, 1871.

*Hab.*—Texas; Mt. Graham, Ariz.

331. **Humuli**, Harr., 276, pl. 4, fig. 3, 1862; Fern., But. Me., 76, 1884 \*.

*Favonius*, Bd.-Lec. (not Sm.-Abb.), 95, pl. 30, 1833 \*;

Morr., 95, 1862.

*Hyperici*, Bd.-Lec., 90, pl. 28, 1833.

*Hab.*—Atl. St.; Miss. Valley; Mont.

332. **Melinus**, Hüb., *Zutr. Ex. Schmett.*, figs. 121, 122, 1818; Bd., *Ann. Soc. Ent. Fr.*, 2, 10, 287, 1852.  
 var. **PUDICA**, H. Edw., *Pr. Cal. Ac. N. Sci.*, 6, 1876.  
*Hab.*—Cala.; Nev.; Ariz.
333. **Acadica**, Edw., *Pr. Ac. N. Sci. Phil.*, 1862, 55; id., *But.*, 1, 142, pl. 48, 1869; Saund., *Can. Ent.*, 1, 95, 1869 \*.  
*Souhegan*, Whitn., *Pr. Bost. Soc. N. Hist.*, 12, 162, 1868.  
*Hab.*—Ont.; Queb.; North. St.; Mont.; Nev.; Ariz.
334. **Californica**, Edw., *Pr. Ac. N. Sci. Phil.*, 1862, 223.  
*Borus*, Bd., *Lep. de la Cal.*, 43, 1869.  
 var. **CYGNUS**, Edw., *Tr. A. E. Soc.*, 3, 207, 1871.  
*Hab.*—Nev.; Cala. to Vanc. Isld.
335. **Itys**, Edw., *Papilio*, 2, 23, 1882.  
*Hab.*—Ariz.
336. † **Auretorum**, Bd., *Ann. Soc. Ent. Fr.*, 2, 10, 288, 1852.  
*Hab.*—Cala (this species remains unknown to American collectors).
337. **Dryope**, Edw., *Tr. A. E. Soc.*, ♀, 3, 19; ♂, 3, 93, 1870.  
*Hab.*—Cala.; Nev.; Utah.
338. † **Sylvinus**, Bd., *Ann. Soc. Ent. Fr.*, 2, 10, 287, 1852.  
*Hab.*—Cala (this species has not been identified by American collectors).
339. **Edwardsii**, Saund., *Can. Ent.*, 1, 99, 1869; Gr.-Rob., *Tr. A. E. Soc.*, 1, 172, 1867.  
*Fulacer*, Harr. (not Godt.), 276, 1862.  
*Calanus*, Gr.-Rob. (not Hüb.), l. c. 1, 173, 1867.  
*Hab.*—Ont.; Queb.; Br. Am.; Me. to Neb.; Col.
340. **Wittfeldii**, Edw., *Can. Ent.*, 15, 136, 1883.  
*Hab.*—Indian River, Fla.
341. **Calanus**, Hüb., *Samml. Ex. Schmett.*, 1, 1806–1824; Fern., *But. Me.*, 78, 1884.  
*Fulacer*, Godt., *Enc. Meth.*, 9, 633, 1819; Bd.-Lec., 92, pl. 29, 1833 \*; Morr., 95, 1862.  
*Inorata*, Gr.-Rob., *Tr. A. E. Soc.*, 1, 323, 1868.  
*Hab.*—Atl. and West. St.; Texas; Col.; N. Mex.; Ont.; Queb.  
 var. **LORATA**, Gr.-Rob., l. c., 1, 171, 1867.  
*Hab.*—W. Va.

342. **Ontario**, Edw., Tr. A. E. Soc., 2, 209, 1868; id., But., 1, 145, pl. 48, 1869.  
*Hab.*—Ont.; N. E.
343. **Strigosa**, Harr., 276, 1862; Edw., But., 1, 146, pl. 48, 1869; Saund., Can. Ent., 1, 99, 1869 \*; Fern., But. Me., 77, 1884 \*.  
*Liparops*, Scud. (not Bd.-Lec.), Buff. Bull., 3, 111, 1876.  
*Hab.*—Atl. St.; Miss. Valley; Mont.; Col.; Ont.; Queb.
344. **Putnami**, H. Edw., Pr. Cal. Ac. N. Sci., 6, 1876.  
*Hab.*—Spring Lake, Utah.
345. **Spadix**, H. Edw., Papilio, 1, 53, 1881.  
*Hab.*—So. Cal.
346. **Tetra**, Behr., in Edw., Tr. A. E. Soc., 3, 19, 1870.  
*Hab.*—Cal.
347. **Chalcis**, Behr., in Edw., l. c., 2, 376, 1879.  
*Hab.*—Cal.; Utah.
348. **Sæpium**, Bd., Ann. Soc. Ent. Fr., 2, 10, 288, 1852; Morr., 99, 1862.  
var. *FULVESCENS*, H. Edw., Pr. Cal. Ac. N. Sci., 6, 1876.  
*Hab.*—Cal., W. Terr.; Utah; Nev.; Col.
349. **Nelsoni**, Bd., Lep. de la Cal., 43, 1869.  
var. *EXOLETA*, H. Edw., Papilio, 1, 53, 1881.  
var. *MUIRII*, H. Edw., l. c., 1, 53, 1881.  
*Hab.*—Big Trees and Mendicino, Cal.
350. **Adenostomatis**, H. Edw., Pr. Cal. Ac. N. Sci., 6, 1876.  
*Hab.*—No. and So. Cal.
351. **Tacita**, H. Edw., Papilio, 1, 54, 1881.  
*Hab.*—Mt. Shasta, Cal.
352. **Spinetorum**, Bd., in Hew., Ill., Pt. 3, figs. 198, 199, 1867; id., Lep. de la Cal., 42, 1869.  
*Ninus*, Edw., Tr. A. E. Soc., 3, 20, 1871.  
*Hab.*—No. Cal. to W. Terr.; Col.
353. **Siva**, Edw., Tr. A. E. Soc., 5, 110, 1874.  
*Hab.*—Ariz.
354. **Castalis**, Edw., l. c., 3, 208, 1871.  
*Hab.*—Texas.

355. **Smilacis**, Bd.-Lec., 107, pl. 33, 1833 ✱; Morr., 98, 1862.  
*Auburniana*, Harr., 277, 1862.  
*Hab.*—Atl. and West. St.; N. W. Texas; Point Pelee, Ont. (auct. Saunders)
356. **Acis**, Dru., 1. pl. 1, 1773; Cram., 2, pl. 175, figs. C, D, 1779; Morr., 101, 1862.  
*Hab.*—Key West, Fla.
357. **Poeas**, Hüb., Samml. Ex. Schmett., 1, 1806–1824; Bd.-Lec., 111, pl. 35, 1833; Morr., 103, 1862.  
*Hab.*—South. St.; W. Va.; Ky.; Ind.
358. **Columella**, Fab., Ent. Syst., 3, 1, 282, 1793.  
*Eurytulus*, Hüb., Samml. Ex. Schmett., 2, 1806–1824.  
*Modesta*, Mayn., Am. Nat., 7, 178, 1873.  
*Ocellifera*, Gro., Buff. Bull., 1, 78, 1873.  
*Hab.*—Fla.; Texas; occasl. N. Y.
359. **Clytie**, Edw., Field and Forest, 3, 88, 1877; id., Papilio, 2, 24, 1882.  
*Hab.*—San Antonio, Texas; Ariz.
360. **Leda**, Edw., Papilio, 2, 23, 1882.  
*Hab.*—Ariz.
361. **Ines**, Edw., l. c., 2, 25, 1882.  
*Hab.*—Ariz.

## Group IV.

362. **Behrii**, Edw., Tr. A. E. Soc., 3, 18, 1870.  
*Kali*, Str., Lep., Pt. 14, 129, 1878.  
*Hab.*—Cal.; Nev.; Col.
363. **Augustus**, Kirby, Faun. Bor. Am., 4, 298, pl. 3, figs. 4, 5, 1837; Harr., 279, fig. 108, 1862; Morr., 103, 1862; Fern., But. Me., 79, 1884.  
*Hab.*—Boreal Am.; Ont.; Queb.; East. St.
364. **Iroides**, Bd., Ann. Soc. Ent. Fr., 2, 10, 289, 1862; Morr., 100, 1862; H. Edw., Pr. Cal. Ac. N. Sci., June, 1878 ✱.  
*Hab.*—Br. Col. to Ariz.
365. † **Fotis**, Str., Lep., Pt. 14, 129, 1878.  
*Hab.*—Ariz.

366. **Irus**, Godt, Enc. Meth., 9, 674, 1823; Bd.-Lec., 101, pl. 31, 1833; Morr., 97, 1862; Fern., But. Me., 80, 1884.  
 var. **ARSACE**, Bd.-Lec., 103, pl. 32, 1833.  
 var. **MOSSII**, H. Edw., Papilio, 1, 54, 1881.  
*Hab.*—Atl. and West. St.; Vanc. Isld.
367. **Henrici**, Gr.-Rob., Tr. A. E. Soc., 1, 774, 1867; Edw., Papilio, 1, 150, 1881; Fern., But. Me., 80, 1884 \*.  
*Hab.*—W. Va.
368. **Eryphon**, Bd., Ann. Soc. Ent. Fr., 1, 10, 290, 1852; Morr., 1862.  
*Hab.*—Cala.; Col.
369. **Nippon**, Hüb., Zutr. Ex. Schmett., figs. 203, 204, 1823; Fitch, 4th Rep. N. Y. Agr. Soc., 1858, p. 57 \*; Morr., 97, 1862; Fern., But. Me., 82, 1884 \*; Fletcher, Can. Ent., 16, 92, 1884 \*.  
*Hab.*—Atl. and West. St.; Col.; Ont.; Queb.; N. Sco.
370. **Affinis**, Edw., Pr. Ac. N. Sci., Phil., 1862, 223.  
*Hab.*—Utah.
371. **Dumetorum**, Bd., Ann. Soc. Ent. Fr., 2, 10, 291, 1852; Morr., 100, 1862.  
*Viridis*, Edw., Pr. Ac. N. Sci. Phil., 1862, 223.  
*Hab.*—Cala.; Oreg.; Nev.
372. **Apama**, Edw., Papilio, 2, 137, 1882.  
*Hab.*—Ariz.
373. **Sheridanii**, Edw., Field and Forest, 3, 48, 1877.  
*Hab.*—Mont.
374. **Laeta**, Edw., Pr. Ac. N. Sci. Phil., 1862, 55; id., But., 1, 141, pl. 47, 1869; id., Papilio, 2, 8, 1883; Fern., But. Me., 83, 1884.  
 ♀ *Clothilde*, Edw., Pr. E. Soc. Phil., 2, 15, 1863.  
*Hab.*—Me. to W. Va.; Atlantic City, N. J.; Ariz.; Ont.; Queb.
375. **Fuliginosa**, Edw. (Lycæna), Pr. Ac. N. Sci. Phil., 1861, 164; Morr., 330, 1862.  
*Suasa*, Bd., Lep. de la Cala., 51, 1869.  
*Hab.*—Cala.; Lake Tahoe, Nev.
376. **Titus**, Fab., Ent. Syst., 3, 297, 1793; Fern., But. Me., 84, 1884 \*.



*Mopsus*, Hüb., Zutr., Ex. Schmett., figs. 135, 136, 1818;  
Bd.-Lec., 109, pl. 34, 1833 \*; Morr., 102, 1862.

*Hab.*—N. E. to Ariz.; Ont.; Queb.; Old Man's River, Br. Am.

**FENISECA**, Grote.

377. **Tarquinius**, Fab., Ent. Syst., 3, 319, 1793; Fern., But. Me., 85, 1884.

*Cratægi*, Bd.-Lec., 128, pl. 37, 1833; Morr., 84, 1862.

*Porsenna*, Send., Pr. Ess. Ins., 3, 163, 1863.

*Hab.*—Atl. St.; Miss. Valley; Ont.; Queb.; N. Sco.

**CHRY SOPHANUS**, Doubleday.

**Group I.**

378. **Arota**, Bd., Ann. Soc. Ent. Fr., 2, 10, 293, 1852; Morr., 86, 1862; Str., Lep., pl. 10, figs. 27, 28, 1874.

*Hab.*—Cala.

379. **Virginien sis**, Edw., Tr. A. E. Soc., 3, 21, 1870; St., Lep., pl. 10, figs. 21, 22, 1874.

*Hab.*—Cala.; Nev.; Col.

380. **Hermes**, Edw., l. c., 3, 21, 1870.

*Hab.*—Cala.; Nev.

**Group II.**

381. **Xanthoides**, Bd., Ann. Soc. Ent. Fr., 2, 10, 292, 1852; id., Lep. de la Cala., 45, 1869; Morr., 86, 1862; Str., Lep., pl. 10, figs. 12, 13, 1874.

*Hab.*—Cala.

382. **Dione**, Scud., Tr. Chic. Ac. Sci., 1, 330, 1869.

*Hab.*—Ia. to Kans.; Neb.; Mont.

383. **Editha**, Mead, Can. Ent., 10, 198, 1878.

*Hab.*—Lake Tahoe, Nev.

384. **Gorgon**, Bd., Ann. Soc. Ent. Fr., 2, 10, 292, 1852; Morr., 86, 1862; Str., Lep., pl. 10, fig. 17, 1874.

*Hab.*—Cala.; Nev.

385. **Thoe**, Bd.-Lec., 125, pl. 38, 1833; Morr., 84, 1862; Saund., Can. Ent., 1, 57, 1869 \*; Bean, Can. Ent., 16, 68, 1884 \*.

*Hyllus*, Edw. (not Cram.)

*Hab.*—Me. to Neb.; Ohio; Kans.; Col.; Ont.; Queb.

## Group III.

386. **Mariposa**, Reak., Pr. E. Soc. Phil., 6, 149, 1866; Str., Lep., pl. 10, figs. 25, 26, 1874.  
*Nivalis*, Bd., Lep. de la Cala.; 44, 1869.  
*Hab.*—Cala.; Col.; Mont.; Summit, Br. Am.
387. **Zeroc**, Bd., Lep. de la Cala., 45, 1869.  
*Ianthe*, Edw., Tr. A. E. Soc., 3, 211, 1871; Str., Lep., pl. 10, figs. 23, 24, 1874.  
*Hab.*—Cala.; Col.
388. **Hellroides**, Bd., Ann. Soc. Ent. Fr., 2, 10, 291, 1852; Morr., 86, 1862; Mead, Rep. Wheeler Exp., 5, 780, 1875 \*; Str., Lep., pl. 10, figs. 19, 20, 1874.  
*Castro*, Reak., Pr. E. Soc. Phil., 6, 148, 1866.  
*Hab.*—Mont. to Ariz.; Oreg.; Cala.
389. **Florus**, Edw., Can. Ent., 15, 210, 1883.  
*Hab.*—Garrett's Ranche, Br. Am. (by Geddes)
390. **Dorcas**, Kirby, Faun. Bor. Am., 4, 299, pl. 4, 1837; Morr., 90, 1862.  
*Hab.*—Kodiak, Alaska; Br. Am.; So. Labr.
391. **Epixanthe**, Bd.-Lec., 127, pl. 38, 1833; Harr., 274, 1862; Morr., 85, 1862; Fern., But. Me., 86, 1884.  
*Hab.*—Br. Am.; Ont.; Queb.; N. F'land.; Me.; N. E.; Kans.
392. **Hypophleas**, Bd., Ann. Soc. Ent. Fr., 2, 10, 291, 1852; Scud., Buff. Bull., 3, 128, 1876.  
*Phleas*, Bd.-Lec., 123, 1833.  
*Phleas* var. *Americana*, D'Urban, Can. Nat., 5, 246, 1857.  
*Americana*, Harr., 273, 1862; Fern., But. Me., 87, 1884  
 \*.  
 aberr. FASCIATA, Str., Cat., 101, 1878.  
*Hab.*—North., Mid., West. St.; Cala.; Br. Am. to Pac.; Ont.; Queb.; N. Sco.  
 var. FEILDENI, McLachl., Linn. Soc. J'l., pl. 14, 111, 1878.  
*Hab.*—Arctic, Lat. 81° 45'.

## Group IV.

393. **Cupreus**, Edw., Tr. A. E. Soc., 3, 20, 1870; id., But., 2, pl. 1 of Chrys., 1874.  
*Hab.*—Shasta, Cala.; Oreg.

394. **Snowi**, Edw., Tr. Kans. Ac. Sci., 7, 69, 1881.  
*Hab.*—Col.
395. **Rubidus**, Behr, Pr. E. Soc. Phil., 6, 208, 1866; Edw., But., 2, pl. 1 of Chrys., 1874.  
*Hab.*—Oreg.; Nev.; Mont.
396. **Sirius**, Edw., Tr. A. E. Soc., 3, 270, 1871; id., But., 2, pl. 1 of Chrys., 1874; Str., Lep., pl. 10, figs. 29, 30, 1874.  
*Hab.*—Mont. to Ariz.: Fort Macleod, Br. Am. (by Geldes)

**LYCÆNA**, Fabricius.**Group I.**

397. **Heteronea**, Bd., Ann. Soc. Ent. Fr., 2, 10, 298, 1852; Morr., 89, 1862; Edw., But., 2, pl. 1 of Lye., 1874; Str., Lep., pl. 10, figs. 5, 6, 1874.  
*Hab.*—Cala.; Utah; Nev.; Col.
398. **Clara**, H. Edw., Pr. Cal. Ac. N. Sci., 6, 1877.  
*Hab.*—So. Cala.
399. **Lycea**, Edw., Pr. E. Soc. Phil., 2, 507, 1864; Mead, Rep. Wheeler Exp., 5, 785, 1875 \*.  
*Rapahoe*, Reak., Pr. E. Soc. Phil., 6, 146, 1866; Str., Lep., pl. 10, figs. 14, 15, 1874.  
*Hab.*—Col.; Nev.; Mont.; Ariz.; N. Mex.
400. **Fulla**, Edw., Tr. A. E. Soc., 3, 194, 1870.  
*Hab.*—Cala.; W. Terr.; Vanc. Isld.
401. **Daedalus**, Behr, Pr. Cal. Ac. N. Sci., 3, 280, 1867; Edw., Can. Ent., 16, 2, 1884.  
 ♀ *Achaja*, Behr, l. c., 3, 280, 1867.  
 ♂ ♀ *Rufescens*, Bd., Lep. de la Cala., 48, 1869.  
*Hab.*—So. Cala.
402. **Saepiolus**, Bd., Ann. Soc. Ent. Fr., 2, 10, 296, 1852; Morr., 88, 1862.  
*Hab.*—Cala.; Nev.; Col.; Mont.; Br. Am.
403. **Icaroides**, Bd., Ann. Soc. Ent. Fr., 2, 10, 297, 1852; Morr., 88, 1862.  
 var. **MARICOPA**, Reak., Pr. Ac. N. Sci. Phil., 1866, 245.  
*Pardalis*, Behr, Pr. Cal. Ac. N. Sci., 3, 280, 1867.  
*Erymus*, Bd., Lep. de la Cala., 48, 1869.  
*Mintha*, Edw., Tr. A. E. Soc., 3, 194, 1870.  
*Hab.*—Cala.

404. **Amica**, Edw., Pr. E. Soc. Phil., 2, 80, 1863.  
*Hab.*—Mackenzies River, Br. Am.
405. **Pembina**, Edw., Pr. Ac. N. Sci. Phil., 1862, 224.  
*Hab.*—Slave Lake, Br. Am.
406. **Pheres**, Bd., Ann. Soc. Ent. Fr., 2, 10, 297, 1852; Morr., 89, 1862.  
 var. *EVIVUS*, Bd., Lep. de la Cala., 49, 1869.  
*Hab.*—Cala. to Br. Col.; Nev.; Col.
407. **Phileros**, Bd., Lep. de la Cala., 50, 1869.  
*Helios*, Edw., Tr. A. E. Soc., 3, 208, 1871.  
*Hab.*—Cala.; Utah; Nev.; Ariz.
408. **Ardea**, Edw., Tr. A. E. Soc., 3, 209, 1871.  
*Hab.*—Nev.
409. **Kodiak**, Edw., l. c., 3, 20, 1870.  
*Hab.*—Kodiak, Alaska.

## Group II.

410. **Xerxes**, Bd., Ann. Soc. Ent. Fr., 2, 10, 296, 1852; Morr., 88, 1862.  
*Hab.*—San Francisco, Cala (believed to be extinct).
411. **Antiakis**, Bd., l. c., 2, 10, 300, 1862; Morr., 90, 1862.  
 var. *BEHRII*, Edw., Pr. Ac. N. Sci. Phil., 1862, 224.  
*Polypheumus*, Bd., Lep. de la Cala., 1869.  
 var. *MERTILA*, Edw., Pr. E. Soc. Phil., 6, 206, 1866.  
*Hab.*—Cala.; Nev.; Ariz.  
 aberr. *ORCUS*, Edw., Tr. A. E. Soc., 2, 376, 1869.  
*Hab.*—Cala.
412. **Couperii**, Grote, Buff. Bull., 1, 185, 1874.  
*Pembina*, Str. (not Edw.), Lep., pl. 10, figs. 10, 11, 1874.  
*Hab.*—Anticosti; So. Labr.; N. F'land.
413. **Afra**, Edw., Can. Ent., 15, 211, 1883.  
*Hab.*—Saskn. (by Geddes)
414. **Lygdamas**, Doubl., Entom., 209, 1842; Edw., But., 1, 150, pl. 49, 1869.  
*Hab.*—Mich.; Wis. to Ga.; W. Va.  
 Western form *ORO*, Scud., Can. Ent., 8, 23, 1876.  
*Hab.*—Col.; N. Mex.; Cala.

## Group III.

415. **Sagittigera**, Feld., Reise Nov., Lep., 2, 281, pl. 35, 1865.  
*Catalina*, Reak., Pr. Ac. N. Sci. Phil., 1866, 244; Str,  
 Lep., pl. 10, figs. 1, 2, 1874.  
*Lorquini*, Behr, Pr. Cal. Ac. N. Sci., 3, 280, 1867.  
*Daunia*, Edw., Tr. A. E. Soc., 3, 272, 1871.  
*Viaca*, Edw., l. c., 3, 209, 2871.  
*Rhæa*, Bd., Lep. de la Cala., 51, 1869.  
*Hab.*—Cala.; Nev.; Col.
416. **Speciosa**, H. Edw., Pr. Cal. Ac. N. Sci., 6, 1876; id., Papilio,  
 1, 55, 1881.  
*Hab.*—So. Cala.
417. **Sonorensis**, Feld., Reise Nov., Lep., 2, 281, pl. 35, 1865.  
*Regia*, Bd., Lep. de la Cala., 46, 1869; Edw., But., 2, pl.  
 1 of *Lycæna*, 1874.  
*Hab.*—Los Angeles, San Berno., Cala.

## Group IV.

418. **Podarce**, Feld., Reise Nov., Lep., 2, 282, pl. 35, 1865.  
*Tehama*, Reak., Pr. Ac. N. Sci. Phil., 1866, 246.  
*Cilla*, Behr, Pr. Cal. Ac. N. Sci., 3, 281, 1867.  
*Nestos*, Bd., Lep. de la Cala., 50, 1869.  
*Orbitulus*, Str. (not De Prun., not Esp.) Lep., pl. 10, fig.  
 16, 1874.  
*Hab.*—Cala.; Nev.
419. **Aquilo**, Bd., Icon., 62, pl. 12, figs. 7, 8, 1833.  
*Franklinii*, Curt., App. Ross Exp., 69, pl. A, figs. 8, 9,  
 1835; Scud., Pr. Bost. Soc. N. Hist., 17, 1875.  
*Hab.*—Arctic Am.; Labr.
420. **Rustica**, Edw., Pr. E. Soc. Phil., 4, 203, 1865.  
*Hab.*—Col.; Br. Am.

## Group V.

421. **Enoptes**, Bd., Ann. Soc. Ent. Fr., 2, 10, 298, 1852; Morr., 89,  
 1862.  
*Hab.*—Cala.; W. Terr.; Ariz.
422. **Glaucion**, Edw., Tr. A. E. Soc., 3, 210, 1871.  
*Hab.*—Col.

423. **Battoides**, Behr, Pr. Cal. Ac. N. Sci., 3, 282, 1867.  
*Hab.*—Cala.; Nev.; Col.
424. **Shasta**, Edw., Pr. Ac. N. Sci. Phil., 1862, 224.  
*Zelmira*, Feld., Reise Nov., Lep., 282, pl. 35, 1865.  
*Calchas*, Behr, Pr. Cal. Ac. N. Sci., 3, 281, 1867.  
*Nivium*, Bd., Lep. de la Cala., 47, 1869.  
*Lupini*, Bd., l. c., 46, 1869.  
*Minchaha*, Scud., Pr. Bost. Soc. N. Hist., 17, 88, 1875.  
*Hab.*—Cala. to Oreg.; Utah; Nev.; Mont.; Col.
425. **Melissa**, Edw., Tr. A. E. Soc., 4, 346, 1873; Mead, Rep. Wheeler  
 Exp., 5, 783, pl. 36, 1875; Str., Lep., pl. 10, figs. 8, 9, 1874;  
 Edw., Papilio, 4, 91, 1884 \*.  
*Hab.*—Ariz.; N. Mex.; Col.; Nev.; Mont.; Kans.
426. **Scudderii**, Edw., ♂, Pr. Ac. N. Sci. Phil., 1861, 164; id., ♀,  
 l. c., 1862, 225; Morr., 329, 1862.  
*Hab.*—N. Y.; Mich.; Wis.; Ont.; Lake Lahache, Br. Col.
427. **Lotis**, Lintn., 30th Rep. N. Y. St. Mus. Nat. Hist., 1879, 169;  
 id., Ent. Cont., 4, 57, 1878.  
*Hab.*—Mendocino, Cala.
428. **Acmon**, Doubl.-Hew., Gen. Di. Lep., pl. 76, 1852.  
*Antægon*, Bd., Ann. Soc. Ent. Fr., 2, 10, 295, 1852.  
*Hab.*—Cala. to Wash. Terr.; Ariz. to Mont.
429. **Aster**, Edw., Can. Ent., 14, 194, 1882.  
*Hab.*—N. F'land.
430. **Annetta**, Mead, Mss.; Edw., Papilio, 2, 48, 1882.  
*Hab.*—Utah.
431. **Anna**, Edw., Pr. Ac. N. Sci. Phil., 1861, 163; Morr., 329, 1862;  
 Str., Lep., pl. 10, figs. 4, 5, 1874.  
*Cajona*, Reak., Pr. E. Soc. Phil., 6, 147, 1866.  
*Argyrotoæus*, Behr, Pr. Cal. Ac. N. Sci., 3, 281, 1867.  
*Philemon*, Bd., Lep. de la Cala., 47, 1869.  
*Hab.*—Cala. to Col.; Oreg.; Mont.; Belly River, Br. Am. (by  
 Geddes)

## Group VI.

432. **Pseudargiolus**, Bd.-Lec.  
 winter form 1. **LUCIA**, Kirby, ♂, Faun. Bor. Amer., 4, 299,  
 pl. 3, figs. 8, 9, 1837; Edw., But., 2, pl. 2 of Lyc., figs. 1,  
 2, 1884; Fern., But. Me., 89, 1884.  
*Hab.*—Alaska; Br. Am. to Queb.; Antic.; N. E.; N. Y.; Col.

winter form 2. *MARGINATA*, Edw., *Papilio*, 3, 86, 1883; id.,  
But., 2, pl. cit., figs. 3, 4, 1884; Fern., l. c., 88, 1884.

*Hab.*—Ont.; Queb. to Long Isld.; Col.

winter form 3. *VIOLACEA*, Edw., *Pr. E. Soc. Phil.*, 6, 201,  
1866; id., But., 1, 149, pl. 49, 1868; 2, pl. cit., figs. 5, 6,  
pl. 3 *Lyc.*, 1884 \*; id., *Papilio*, 3, 86, et seq., 1883;  
Fern., l. c., 88, 1884.

*Hab.*—Alaska; Lake Winnipeg; Br. Am.; Ont.; Queb.; Antici;  
N. E. to W. Va.; Col.

dimorphic male *NIGRA*, Edw., But., 1, pl. 49, 1868; 2, pl.  
cit., fig. 7.

*Hab.*—W. Va.; Col.

var. *CINEREA*, Edw., *Papilio*, 3, 8, 1883; id., But., 2, pl. cit.,  
figs. 16, 17.

spring form *PSEUDARGIOLUS*, Bd.-Lec. (text, not plate), 118,  
1833; Edw., But., 1, 153, pl. 50, 1869; id., *Can. Ent.*,  
10, 1, and 131, 1878 \*; id., *Papilio*, 3, 86, 1883; id.,  
But., 2, pl. cit., figs. 8, 9, l. c., pl. 3 of *Lyc.* \*.

*Argiolus*, Abb.-Sm., pl. 15, 1797.

*Hab.*—Pa. to Ga.; Wis.; Tenn.

var. *ARIZONENSIS*, Edw., But., 2, pl. 2, cit., figs. 18, 19.

*Hab.*—Ariz.

summer form *NEGLECTA*, Edw., *Pr. Ac. N. Sci. Phil.*, 1862s  
56; id., But., 1, 155, pl. 50, 1869; id., *Can. Ent.*, 7, 81,  
1875 \*; Lintn., *Can. Ent.*, 7, 122, 1875; Edw., l. c., 10,  
1, 1878 \*; id., But., 2, pl. 2 of *Lyc.*, figs. 10 to 15, pl.  
3, larva, etc., 1884; Fern., *But. Me.*, 89, 1884 \*.

*Hab.*—Ont.; Queb.; N. E. to W. Va.; Mont.; Nev.

Pacific form *PIASUS*, Bd., *Ann. Soc. Ent. Fr.*, 2, 10, 299,  
1852; Edw., But., 2, pl. 2 of *Lyc.*, fig. 20, ♂, pl. 3, fig.  
26, 27, ♂, 1884.

var. *ECHO*, Edw., *Pr. E. Soc. Phil.*, 2, 506, 1864; id., But.,  
2, pl. 2 of *Lyc.*, fig. 21, ♀.

*Hab.*—Cala.; Ariz.

#### Group VII.

433. *Amyntula*, Bd., *Ann. Soc. Ent. Fr.*, 2, 10, 294, 1852; Morr.,  
87, 1862.

*Hab.*—Cala.; W. Terr., Ariz.; Nev.; Calgary, Br. Am.

434. **Comyntas**, Godt., Enc. Meth., 9, 660, 1823; Bd.-Lec., 120, pl. 36, 1833 \*; Morr., 83, 1862; Edw., Can. Ent., 8, 202, 1876 \*; Fern., But. Me., 91, 1884 \*.  
*Hab.*—Atl. St. to Rocky Mts.; Col.
435. **Moniça**, Reak., Pr. Ac. N. Sci. Phil., 1866, 244; Str., Lep., pl. 10, fig. 18, 1874.  
*Hab.*—So. Cala.; Ariz.
436. **Alce**, Edw., Tr. A. E. Soc., 3, 272, 1871.  
*Isola*, Mead (not Reak.), Rep. Wheeler Exp., 5, 783, 1875.  
*Hab.*—Col.; N. Mex.; Ariz.; Kans.
437. **Gyas**, Edw., l. c., 3, 210, 1871.  
*Hab.*—Ariz.
438. **Cyna**, Edw., l. c., 9, 3, 1881.  
*Hab.*—San Antonia, Texas.
439. **Filenus**, Poey, Cent. Lep. Cuba, pl. 2, 1832; Bd.-Lec., 114, pl. 35, 1833; Morr., 82, 1862.  
*Hab.*—Gulf States.
440. **Isophthalma**, Herr.-Schaeff., Stett. Ent. Zeit., 73, 1869.  
*Pseudofea*, Morr., Buff. Bull., 1, 186, 1784.  
*Hab.*—Fla.; Ga.
441. **Exilis**, Bd., Ann. Soc. Ent. Fr., 2, 10, 294, 1852; Morr., 87, 1862.  
*Fea*, Edw., Tr. A. E. Soc., 3, 211, 1871.  
*Hab.*—Cala.; Ariz.; N. Mex.; Col.; Texas; Fla.
442. **Ammon**, Luc., Sagr., Hist. Cuba, 7, 612, pl. 16, figs. 7, 7a, 1856.  
*Hab.*—Indian River and So. Fla.
443. **Marina**, Reak., Pr. Ac. N. Sci. Phil., 1868, 87.  
*Hab.*—So. Cala.; So. Col.; Ariz.
444. **Theonus**, Luc., Sagr., Hist. Cuba, 7, 611, pl. 16, figs. 8, 8a, b, 1856.  
*Cassius*, Morr., Buff. Bull., 1, 187, 1874.
445. **Striata**, Edw., Field and Forest, 3, 86, 1877.  
*Hab.*—San Antonio, Texas; occasl. near Racine, Wis. (by Hoy)



## HESPERIDÆ.

## SECTION I.

**CARTEROCEPHALUS**, Lederer.

446. **Maudan**, Edw., Pr. E. Soc. Phil., 2, 20, pl. 5, 1863; Fern., But. Me., 93, 1884.  
*Mesapano*, Scud., Pr. Bost. Soc. N. Hist., 11, 383, 1868.  
*Skada*, Edw., Tr. A. E. Soc., 3, 196, 214, 1870.  
*Hab.*—Alaska to Labr.; Queb.; Cala.; White Mts., N. H.; Me.
447. **Omaha**, Edw., Pr. E. Soc. Phil., 2, 21, 1863.  
*Mingo*, Edw., l. c., 6, 207, 1866.  
*Californica*, Scud., Syst. Rev., 54, 1872.  
*Hab.*—W. Va.; Col.; Cala.

**ANCYLOXYPHA**, Felder.

448. **Numitor**, Fab., Ent. Syst., 3, 324, 1793; Morr., 120, 1862; Fern., But. Me., 94, 1884.  
*Puer*, Hüb., Zutr. Ex. Schmett., figs. 275, 276, 1823.  
*Marginatus*, Harr., 308, 1862.  
*Hab.*—Me. to Texas; Neb.

**COPÆODES**, Speyer.

449. **Procris**, Edw., Tr. A. E. Soc., 3, 215, 1871.  
 var. **WACO**, Edw., l. c., 2, 122, ♂, 1868.  
*Minima*, Edw., l. c., 3, 196, 1870.  
*Hab.*—Texas; N. Mex.; Ariz.; So. Cal.
450. **Arene**, Edw., l. c., 3, 214, 1871.  
*Hab.*—Texas; Ariz.
451. **Wrightii**, Edw., Can. Ent., 14, 152, 1882.  
*Hab.*—Mohave, Cal.
452. **Myrtis**, Edw., Papilio, 2, 26, 1882.  
*Hab.*—Ariz.
453. **Eunus**, Edw., Papilio, 1, 47, 1881.  
*Hab.*—Kern River, Cal.

**THYMELICUS**, Speyer.

454. **Garita**, Reak., Pr. E. Soc. Phil., 6, 150, 1866.  
*Hylax*, Edw., Tr. A. E. Soc., 3, 274, 1871.  
*Hab.*—Col.; Dak.; Fort Ellis, Br. Am.

455. **Poweschiek**, Park., Am. Ent., 2, 271, 1870.

*Hab.*—Ia.; Ill.; Mont.; Col.

**PAMPHILA**, Fabricius.

**Group I.**

456. **Massasoit**, Scud., Pr. Ess. Ins., 3, 171, 1862.

*Hab.*—East., Mid. St.; Neb.; Texas; Col.

457. **Zabulon**, Bd.-Lec., pl. 76, 1833; Morr., 116, 1862; Fern., But. Me., 94, 1884 \*.

var. **HOBOMOK**, Harr., 313, fig. 137, 1862.

dimorphic form ♀, **POCAHONTAS**, Scud., Pr. Ess. Ins., 3, 171, 1862.

var. ♀, **QUADRAQUINA**, Scud., Pr. Bost. Soc. N. Hist., 11, 381, 1868.

*Hab.*—Queb.; Ont. to Gulf Mex.; Miss. Valley; Calgarry, Br. Am.

458. **Taxiles**, Edw., Tr. A. E. Soc., 9, 5, 1881.

*Hab.*—Ariz.; Col.; Nev.; So. Cala,

**Group II.**

459. **Ruricola**, Bd., Ann. Soc. Ent. Fr., 2, 10, 315, 1852; Morr., 109, 1862.

*Hab.*—Napa Co., Cala.

460. **Oregonia**, Edw., Can. Ent., 15, 150, 1883.

*Hab.*—Cala.; Nev.; Br. Am.

461. **Columbia**, Scud., Syst. Rev., 56, 1872.

*Sylvanoides*, Scud. (not Bd.), Mem. Bost. Soc. N. Hist., 2, 349, pl. 10, figs. 21, 22, 1874.

*Hab.*—Cala.

462. **Colorado**, Scud., l. c., 349, pl. 10, figs. 16–18, 1874.

*Hab.*—Cala.; W. Terr.; Col.; Ariz.

var. **IDAHO**, Edw., Can. Ent., 15, 148, 1883.

*Hab.*—Cala.; Oreg.; W. Terr.; Br. Am.

463. **Nevada**, Scud., l. c., 347, pl. 10, figs. 1–4, 1874.

*Hab.*—Nev.; Col.; Ariz.; Br. Am.

464. **Manitoba**, Scud., l. c., 351, pl. 10, figs. 8–11, 1874.

*Hab.*—Lake Winnipeg; Br. Col.; W. Terr.; Cala.

465. **Juba**, Scud., l. c., 349, pl. 10, figs. 19, 20, 1874.  
*Hab.*—Cala. ; Col.  
 var. **VIRIDIS**, Edw., Can. Ent., 15, 147, 1883.  
*Hab.*—Los Vegas, N. Mex.
466. **Sassacus**, Harr., Ins. Mass., 315, 1862 ; Scud., Pr. Ess. Ins.,  
 3, 173, 1862 ; id., Mem. Bost. Soc. N. Hist., 2, 346, pl. 10, figs.  
 5, 7, 1874 ; Fern., But. Me., 96, 1884.  
*Hab.*—N. E. ; N. Y. to Neb. ; Ga. ; Fla. ; Col.
467. **Harpalus**, Edw., Tr. A. Soc., 9, 3, 1881.  
*Hab.*—Nev.
468. **Pawnee**, Dodge, Can. Ent., 6, 44, 1874.  
*Hab.*—Neb. ; Mont.
469. **Ottoe**, Edw., Pr. E. Soc. Phil., 6, 207, 1866 ; Scud., Mem. Bost.  
 Soc. N. Hist., 2, 348, pl. 10, fig. 6, 1874.  
*Hab.*—Neb. ; Ind. Terr. ; Ariz.
470. **Lasus**, Edw., ♂, Papilio, 4, 54, 1884.  
*Hab.*—So. Ariz.
471. **Cabelus**, Edw., Tr. A. E. Soc., 9, 4, 1881.  
*Hab.*—Nev. ; Cala.
472. **Napa**, Edw., Pr. E. Soc. Phil., 4, 202, pl. 1, 1864.  
*Dacotah*, Edw., Tr. A. E. Soc., 3, 277, 1871.  
*Hab.*—Col.
473. **Metea**, Scud., Pr. Ess. Ins., 3, 177, 1862.  
 ? ♀, *Ridingsii*, Reak., Pr. E. Soc. Phil., 6, 151, 1866.  
*Hab.*—Conn. ; N. Y. ; Texas ; Col.
474. **Rhesus**, Edw., Field and Forest, 3, 116, 1877.  
*Hab.*—Col. ; Ariz.
475. **Carus**, Edw., Can. Ent., 15, 34, 1883.  
*Hab.*—West Texas ; Ariz.
476. **Uncas**, Edw., Pr. E. Soc. Phil., 2, 19, pl. 5, ♂, 1863.  
*Hab.*—Del. to Ohio ; Dak. to Ariz. ; Br. Am.
477. **Licinus**, Edw., Tr. A. E. Soc., 3, 275, 1871.  
*Hab.*—Texas.
478. **Seminole**, Scud., Syst. Rev., 55, 1872.  
*Hab.*—Fla. ; N. C. ; N. J. ; Ia.

479. **Attalus**, Edw., Tr. A. E. Soc., 3, 276, 1871.  
*Hab.*—Texas.
480. **Yuma**, Edw., l. c., 4, 346, 1873.  
*Hab.*—Ariz.
481. **Snowi**, Edw., ♂, Can. Ent., 9, 29, 1877; ♀, Field and Forest, 3, 117, 1877.  
*Hab.*—Col.; N. Mex.; Ariz.
482. **Leonardus**, Harr., 314, fig. 138, 1862; Morr., 110, 1862; Fern., But. Me., 95, 1884.  
*Hab.*—N. E. to W. Va.; Indian River, Fla.; Kans.; Queb.
483. **Meskei**, Edw., Can. Ent., 9, 58, 1877.  
*Straton*, Edw., ♂ ♀, Papilio, 1, 78, 1881.  
*Hab.*—Texas; Indian River, Fla.
484. **Nemorum**, Bd., Ann. Soc. Ent. Fr., 2, 10, 314, 1852; Morr., 107, 1862.  
*Yreka*, Edw., Pr. E. Soc. Phil., 6, 207, 1866.  
*Hab.*—Cala.
485. **Sylvanoides**, Bd., l. c., 2, 10, 313, 1852; Morr., 107, 1862.  
*Sonora*, Scud., Syst. Rev., 57, 1872.  
*Hab.*—Cala.; Neb.; Col.; W. Terr.
486. **Agricola**, Bd., l. c., 2, 10, 314, 1852; Morr., 108, 1862.  
*Hab.*—Cala.; Nev.; W. Terr.
487. **Milo**, Edw., Can. Ent., 15, 34, 1883.  
*Hab.*—Mt. Hood, Oreg.
488. **Pratincola**, Bd., l. c., 2, 10, 315, 1852; Morr., 108, 1862.  
*Hab.*—Cala.; W. Terr.
489. **Verus**, Edw., Tr. A. E. Soc., 9, 4, 1881.  
*Hab.*—Havilah, Cala.
490. **Campestris**, Bd., l. c., 2, 10, 316, 1852; Morr., 108, 1862.  
*Hab.*—So. Cala.
491. **Huron**, Edw., Pr. E. Soc. Phil., 2, 16, pl. 1, 1863.  
*Hab.*—Atl. St. to Fla.; Miss. Valley; Texas; Ariz.
492. **Morrisonii**, Edw., Field and Forest, 3, 116, 1878.  
*Hab.*—So. Col.; Ariz.

493. **Phylæus**, Drury, 1, pl. 13, 1770; Bd.-Lec., pl. 78, 1833; Morr., 118, 1862; Chapm., Can. Ent., 11, 190, 1879 \*.  
*Bucephalus*, Humph.-West., Br. But., 126, pl. 40, 1841.  
*Hab.*—Mid. and Gulf St. to Pac.
494. **Brettoides**, Edw., Papilio, 3, 71, 1883.  
*Hab.*—Texas; Utah.
495. **Brettus**, Bd.-Lec., ♀, pl. 75, 1833; Morr., 118, 1862.  
 ♂, *Wingina*, Scud., Pr. Ess. Ins., 3, 173, 1862.  
*Hab.*—Gulf St.; W. Va.
496. **Chusca**, Edw., Tr. A. E. Soc., 4, 346, 1873.  
*Hab.*—Ariz.
497. **Draco**, Edw., l. c., 3, 274, 1871.  
*Hav.*—Col.
498. **Sabuleti**, Bd., Ann. Ent. Soc. Fr., 2, 10, 316, 1852; Morr., 109, 1862.  
*Hab.*—Cala.
499. **Otho**, Sm.-Abb., pl. 16, 1797.  
 var. **EGEREMET**, Scud., Pr. Ess. Ins., 3, 174, 1862; Fern., But. Me., 97, 1884.  
*Otho*, Bd.-Lec., pl. 17, 1833 \*.  
*Aetna*, Scud., Syst. Rev., 58, 1872.  
*Ursa*, Worth., Can. Ent., 12, 49, 1880.  
*Hab.*—Atl. St.; Miss. Valley; Texas; Ont.
500. **Peckius**, Kirby, Faun., Bor. Am., 4, 300, pl. 4, fig. 5, 1837; Morr., 120, 1862; Fern., But. Me., 97, 1884.  
*Wamsutta*, Harr., 318, fig. 141, 1862.  
*Hab.*—N. E. to Wis.; W. Va.; Kans.; Ont.; Queb.
501. **Mystic**, Scud., Pr. Ess. Ins., 3, 172, 1862; Edw., Pr. E. Soc. Phil., 2, 15, pl. 1, 1863; Fern., But. Me., 98, 1884 \*.  
*Hab.*—N. E.; N. Y.; Ont.; Queb.
502. **Siris**, Edw., Papilio, 1, 47, 1881.  
*Hab.*—Puget Sound, W. Terr.
503. **Mardon**, Edw., Papilio, 1, 47, 1881.  
*Hab.*—Puget Sound, W. Terr.
504. **Cernes**, Bd.-Lec., pl. 76, 1833; Fern., But. Me., 99, 1884.  
*Arogos*, id., l. c., pl. 76.  
*Ahaton*, Harr., 317, fig. 140, 1862.  
*Hab.*—N. E. to Mont.; Fla.; Br. Am.; Ont.; Queb.

505. **Manataaqua**, Scud., Pr. Ess. Ins., 3, 175, 1862; Fern., But. Me., 100, 1884.  
*Cernes*, Harr., 316, 1862.  
*Hab.*—U. S. generally; Br. Am.
506. **Verna**, Edw., Pr. Ac. N. Sci. Phil., 1862, 57.  
*Pottawattomie*, Worth., Can., Ent. 12, 50, 1880.  
*Hab.*—N. Y.; Md. to Ga.; W. Va.; Ohio; Ind.; Kans.
507. **Vestris**, Bd., ♀, Ann. Soc. Ent. Fr., 2, 10, 317, 1852.  
*Kiowah*, Reak., Pr. E. Soc. Phil., 6, 150, 1866.  
*Osceola*, Lintn., 30th Rep. N. Y. St. Mus. Nat. Hist., 1878, 170; id., Ent. Cont., 4, 58, 1878.  
*Hab.*—Cala.; Col.; Indian River, Fla.
508. **Metacomet**, Harr., 317, 1862; Fern., But. Me., 100, 1884.  
*Rurea*, Edw., Pr. Ac. Sci. Phil., 1862, 58.  
*Hab.*—N. E. to Mont.; Kans.; Nev.; Ont.; Queb.
509. **Bellus**, Edw., Papilio, 4, 57, 1884.  
*Hab.*—So. Ariz.
510. **Accius**, Sm.-Abb., pl. 23, ♀, 1797; Chapm., Can. Ent., 11, 191, 1879 \*.  
*Monoco*, Scud., Pr. Ess. Ins., 3, 178, 1862.  
*Nortonii*, Edw., Tr. A. E. Soc., 1, 287, 1867.  
*Punctella*, Gr.-Rob., Tr. A. E. Soc., 1, 1, 1867.  
*Hab.*—Gulf St.; N. C.; East Pa. (auct. Aaron)
511. **Loammi**, Whitn., Can. Ent., 8, 76, 1876.  
*Regulus*, Edw., Tr. A. E. Soc., 9, 5, 1881.  
*Hab.*—Fla.; N. C.
512. **Horus**, Edw., Tr. A. E. Soc., 3, 277, 1871.  
*Hab.*—Texas.
513. **Deva**, Edw., ♀, Tr. A. E. Soc., 5, 292, 1876; id., ♂, l. c., 9, 5, 1881; id., Papilio, 2, 138, 1882, 4, 55, 1884.  
*Hab.*—So. Col.; Ariz.
514. **Lunus**, Edw., Papilio, 4, 56, 1884.  
*Hab.*—So. Ariz.
515. **Maculata**, Edw., Pr. E. Soc. Phil., 4, 201, pl. 1, 1865; Chapm., Can. Ent., 11, 191, 1879 \*.  
*Hab.*—Gulf St.; occasl. N. Y.

516. **Panoquin**, Scud., Pr. Ess. Ins., 3, 178, 1662.  
*Ophis*, Edw., Tr. A. E. Soc., 3, 216, 1871.  
*Hab.*—Gulf St.; Atlantic City, N. J.
517. **Ocola**, Edw., Pr. E. Soc. Phil., 2, 20, pl. 11, 1863.  
*Hab.*—Gulf St.; East Pa. (auct. Aaron); Whitings, Ind.
518. **Ethlius**, Cram., 4, pl. 392, figs. A, B, 1782.  
*Chemnis*, Fab., Ent. Syst., 3, 331, 1793.  
*Olynthus*, Bd.-Lec., pl. 75, 1833.  
*Hab.*—Gulf St.; occasl. N. Y.
519. **Pittacus**, Edw., Papilio, 2, 138, 1882.  
*Hab.*—Ariz.
520. **Python**, Edw., l. c., 2, 139, 1882.  
*Hab.*—Ariz.
521. **Cestus**, Edw., l. c., 4, 57, 1884.  
*Hab.*—So. Ariz.
522. **Rhena**, Edw., Field and Forest, 3, 115, 1877.  
*Hab.*—So. Col.
523. **Bimacula**, Gr.-Rob., Ann. N. Y. Lyc. N. Hist., 8, 433, 1867;  
 Fern., But. Me., 101, 1884.  
*Acanootus*, Scud., Pr. Bost. Soc. N. Hist., 11, 381, 1868.  
*Illinois*, Dodge, Can. Ent., 4, 217, 1872.  
*Hab.*—N. E. to Neb.; Ill.
524. **Pontiac**, Edw., Pr. E. Soc. Phil., 2, 17, pl. 11, ♂, 1863.  
*Conspicua*, Edw., l. c., 2, 17, pl. 5, ♀, 1863; Parker, ♂,  
 Can. Ent., 3, 51, 1871.  
*Orono*, Scud., Syst. Rev., 58, 1872.  
*Hab.*—Mass. to Neb.; N. J.
525. **Dion**, Edw., Can. Ent., 11, 238, 1879.  
*Hab.*—Neb.; Hamilton, Ont.
526. **Arpa**, Bd.-Lec., pl. 68, 1833; Chapm., Can. Ent., 11, 191, 1879  
 \*.  
*Hab.*—Gulf States.
527. **Palatka**, Edw., Tr. A. E. Soc., 1, 287, 1867; Chapm., l. c., 11,  
 192, 1879 \*.  
*Hab.*—Gulf States; Neb.

528. **Melane**, Edw., Tr. A. E. Soc., 2, 312, 1869.  
*Hab.*—Cala.
529. **Vitellius**, Sm.-Abb., pl. 17, 1797.  
*Iowa*, Scud., Tr. Chic. Ac. N. Sci., 336, 1868.  
*Hab.*—Ga.; So. Texas; Ia.; Neb.
530. **Delaware**, Edw., ♂, Pr. E. Soc. Phil., 2, 19, pl. 5, 1863.  
 ♀ *Logan*, Edw., l. c., 2, 18, pl. 1, 1863.  
*Hab.*—Mass. to Fla.; Ill.; Kans.; Mont.
531. **Lagus**, Edw., Tr. A. E. Soc., 9, 5, 1881.  
*Hab.*—West Texas; So. Col.
532. **Byssus**, Edw., Can. Ent., 12, 224, 1880.  
*Hab.*—Indian River, Fla.; Texas.
533. **Phylace**, Edw., Field and Forest, 3, 117, 1877.  
*Hab.*—So. Col.; Ariz.
534. **Osyka**, Edw., Tr. A. E. Soc., 1, 288, 1867.  
*Hab.*—Gulf St.; Whitings, Ind.
535. **Comus**, Edw., l. c., 5, 206, 1876.  
*Nilus*, Edw., Field and Forest, 3, 118, 1877.  
*Hab.*—Texas; So. Col.
536. **Eufala**, Edw., l. c., 2, 311, 1869.  
*Hab.*—Fla.; Texas.
537. **Arabus**, Edw., Papilio, 2, 26, 1882.  
*Hab.*—Ariz.
538. **Fusca**, Gr.-Rob., Tr. A. E. Soc., 1, 2, 1867.  
*Hab.*—Gulf St.
539. **Nereus**, Edw., l. c., 5, 205, 1876; id., Papilio, 2, 139, 1882.  
*Hab.*—Ariz.
540. **Hianna**, Scud., Pr. Bost. Soc. N. Hist., 11, 382, 1868.  
*Hab.*—Mass. to Neb.
541. **Viator**, Edw., Pr. E. Soc. Phil., 4, 202, pl. 1, 1865.  
*Hab.*—Gulf St.; Mass.; N. J.; Ill.; Wis.; Hamilton, Ont.
- AMBLYSCIARTES**, Speyer.
542. **Vialis**, Edw., Pr. Ac. N. Sci. Phil., 1862, 58; Fern., But. Me.,  
 101, 1884.  
*Hab.*—Orono, Me.; Mid., South., West. St.; Queb.



543. **Nysa**, Edw., Can. Ent., 9, 191, 1877.  
*Similis*, Str., Lep., Pt. 14, 1878.  
*Hab.*—Texas.
544. **Eos**, Edw., Tr. A. E. Soc., 3, 276, 1871.  
*Hab.*—Texas; Ga.; Fla.
545. **Samoset**, Seud., P. Ess. Ins., 3, 176, 1862; Fern. But. Me., 102, 1884.  
*Hegon*, Seud., l. c., 3, 176, 1862.  
*Nemoris*, Edw., Pr. E. Soc. Phil., 2, 507, 1863; id., l. c., 4, pl. 1, 1865.  
*Alternata*, Gr.-Rob., Tr. A. E. Soc., 1, 3, 1867.  
*Hab.*—North. and Mid. St.; Me. to Ga.; Wis.; Ia.; Ont.; Queb.
546. **Aenus**, Edw., Field and Forest, 3, 118, 1877.  
*Hab.*—West Texas; So. Col.; N. Mex.; Ariz.
547. **Simius**, Edw., Tr. A. E. Soc., 9, 6, 1881.  
*Hab.*—So. Col.; Ariz.
548. **Cassus**, Edw., 3, 72, 1883.  
*Hab.*—Mt. Graham, Ariz.
549. **Nanno**, Edw., Papilio, 2, 142, 1882.  
*Hab.*—Ariz.
550. **Textor**, Hüb., Zutr. Ex. Schmett., figs. 515, 516, 1825.  
*Oneko*, Seud., Pr. Ess. Ins., 3, 176, 1862.  
*Wakulla*, Edw., Tr. A. E. Soc., 2, 311, 1869.  
*Hab.*—N. C. to Texas.

## SECTION II.

**PYRGUS**, Westwood.**Group I.**

551. **Ericetorum**, Bd., Ann. Soc. Ent. Fr., 2, 10, 313, 1852; Morr., 122, 1862.  
*Alba*, Edw., Pr. E. Soc. Phil., 6, 206, 1866.  
*Hab.*—N. Mex.; Ariz.; Cal.; Oreg.
552. **Oceanus**, Edw., Tr. A. E. Soc., 3, 213, 1871.  
*Hab.*—Ariz.
553. **Domicella**, Erichs., Schomb. Reise, 3, 601, 1848.  
var. **NEARCHUS**, Edw., Papilio, 2, 26, 1882.  
*Hab.*—Ariz.

554. **Tessellata**, Scud., Syst. Rev., 52, 1872.  
*Oileus*, Humph.-West. (not Linn.), Br. But., pl. 38, 1841.  
*Communis*, Gr., Can. Ent., 4, 69, 1872; id., l. c., 4, 220, 1872.  
 var. **MONTIVAGUS**, Reak., Pr. Ac. N. Sci. Phil., 1866, 46.  
*Hab.*—Pa. to Gulf.; Atl. to Pac.; Br. Am.
555. **Centaureæ**, Ramb., Faun. Ent. And., pl. 8, fig. 10, 1839.  
*Ruralis*, Bd., Ann. Soc. Ent. Fr., 2, 10, 311, 1852; Morr., 121, 1862.  
*Wyandot*, Edw., Pr. E. Soc. Phil., 2, 21, pl. 5, 1863.  
*Hab.*—N. Y.; W. Va.; Col.; Labr.
556. **Philetas**, Edw., Papilio, 1, 46, 1881.  
*Hab.*—West Texas.
557. **Cæspitalis**, Bd., Ann. Soc. Ent. Fr., 2, 10, 312, 1852; Morr., 121, 1862.  
*Ricara*, Edw., Pr. E. Soc. Phil., 4, 203, pl. 1, 1865.  
*Petreius*, Edw., Tr. A. E. Soc., 3, 195, 1870.  
*Hab.*—Col.; Nev.; Cala.; Oreg.
558. **Xanthus**, Edw., Field and Forest, 3, 142, 1877.  
*Hab.*—So. Col.
559. **Scriptura**, Bd., Ann. Ent. Soc. Fr., 2, 10, 312, 1852; Morr., 121, 1862.  
*Hab.*—Cala.; Ariz.; Mont.

## Group II.

560. **Nessus**, Edw., Can. Ent., 9, 192, 1877.  
*Notabilis*, Str., Lep., Pt. 14, 131, 1878.  
*Hab.*—Coast to San Antonio, Texas.
- NISONIADES**, Speyer.
561. **Brizo**, Bd.-Lec., pl. 66, 1833 \*; Morr., 114, 1862; Harr., 309, fig. 132, 1862; Fern., But. Me., 102, 1884.  
*Hab.*—Atl. to Rocky Mts.; Col.; Ariz.; Br. Am.; Ont.; Queb.
562. **Icelus**, Lintn., 23d Rep. N. Y. St. Cab. N. Hist., 1872, 162; id., Ent. Cont., 1, 30, pl. 7, figs. 5, 6, 1872; id., Papilio, 1, 72, 1881; Fern., But. Me., 103, 1884.  
*Hab.*—N. E. to Mich.; Ill.; Fla.; Col.; Ariz.; W. Terr.; Ont.

563. **Somnus**, Lintn., Papilio, 1, 73, 1881.  
*Hab.*—Indian River, Fla.
564. **Lucilius**, Lintn., 23d Rep. N. Y. St. Cab. N. Hist., 1872, 162;  
 id., Ent. Cont., 1, 32, pl. 7, figs. 1, 2, 1872; id., l. c., 4, 67,  
 1878 \*.
565. **Persius**, Scud., Pr. Ess. Ins., 3, 170, 1862; Fern., But. Me.,  
 103, 1884.  
*Hab.*—N. E. to Mont.; W. Terr.; Col.; N. Mex.
566. **Alpheus**, Edw., Tr. A. E. Soc., 5, 206, 1876; id., Papilio, 2,  
 139, 1882.  
*Oricus*, Edw., Can. Ent., 11, 51, 1879.  
*Hab.*—N. Mex.; Ariz.; Nev.
567. **Ausonius**, Lintn., 23d Rep. N. Y. St. Cab. N. Hist., 1872, 166;  
 id., Ent. Cont., 34, pl. 7, figs. 11, 12, 1872.  
*Hab.*—Mid. St.; W. Va.
568. **Afranlius**, Lintn., 30th Rep. N. Y. St. Mus. Nat. Hist., 1878,  
 175; id., Ent. Cont., 4, 63, 1878.  
*Hab.*—So. Col.; Ariz.
569. **Martialis**, Scud., Tr. Chic. Ac. N. Sci., 1, 335, 1869; Lintn.,  
 Ent. Cont., pl. 7, figs. 7, 8, 1872.  
*Hab.*—Atl. St. to Fla.; Miss. Valley; Kans.; Col.
570. **Juvenalis**, Fab., Ent. Syst., 3, 339, 1793; Sm.-Abb., pl. 21,  
 1797 \*; Bd.-Lee., pl. 65, 1883 \*; Harr., 309, 1862 \*;  
 Morr., 114, 1862.  
*Costalis*, Doubl.-Hew., Gen. Di. Lep., 2, 519, pl. 79, 1852.  
*Hab.*—Atl. St. to Fla.; Miss. Valley; Col.; Ariz.; Ont.; Queb.
571. **Petronius**, Lintn., Papilio, 1, 70, 1881.  
*Hab.*—Indian River, Fla.
572. **Propertius**, Lintn., Papilio, 1, 71, 1881.  
*Hab.*—Cala.
573. **Nævius**, Lintn., Papilio, 1, 69, 1881.  
*Hab.*—Indian River, Fla.
574. **Pacuvius**, Lintn., 30th Rep. N. Y. St. Mus. N. Hist., 1878, 172;  
 id., Ent. Cont., 4, 60, 1878.  
*Hab.*—N. Mex.; Ariz. Col.

575. **Tatius**, Edw., *Papilio*, 2, 179, 1882.  
*Hab.*—Ariz.
576. **Clitus**, Edw., *Papilio*, 2, 180, 1882.  
*Hab.*—Ariz.
577. **Funeralis**, Lintn., 30th Rep. N. Y. St. Mus. Nat. Hist., 1878.  
173; id., *Ent. Cont.*, 4, 61, 1878.  
*Hab.*—Texas; Ariz.; So. Cal.
578. **Tristris**, Bd., *Ann. Soc. Ent. Fr.*, 2, 10, 311, 1852; Morr., 115,  
1862; Lintn., *Ent. Cont.*, 4, 62, 1878.  
*Hab.*—Cal.; Ariz.

**SYSTASEA**, Butler.

579. **Zampa**, Edw., *Tr. A. E. Soc.*, 5, 207, 1876.  
*Hab.*—Ariz; So. Texas.

**PHOLISORA**, Speyer.

580. **Catullus**, Fab., *Ent. Syst.*, 3, 348, 1793; Sm.-Abb., pl. 24,  
1797 \*; Morr., 115, 1862.  
*Hab.*—U. S. generally.
581. **Pirus**, Edw., ♂, *Field and Forest*, 3, 119, 1878; id., ♀, *Tr. A.*  
*E. Soc.*, 9, 7, 1881.  
*Hab.*—So. Cal.; N. Mex.; Ariz.
582. **Ceos**, Edw., *Papilio*, 2, 140, 1882.  
*Hab.*—Ariz.
583. **Hayhurstii**, Edw., *Tr. A. E. Soc.*, 3, 22, 1870.  
*Hab.*—W. Va. to Kans.; Fla.; Texas; N. Mex.
584. **Libya**, Scud., *Rep. Hayden Bull.*, 4, 258, 1878.  
*Hab.*—Utah; Mohave, Cal.
585. **Lena**, Edw., *Can. Ent.*, 14, 5, 1882.  
*Hab.*—Mont.

**ACHLYODES**, Westwood.

586. **Thraso**, Hüb., *Samml. Ex. Schmett.*, 1, 1806–1816; Bd., *Sp.*  
*Gen.*, 1, pl. 13, fig. 6, 1836.  
*Tamenund*, Edw., *Tr. A. E. Soc.*, 3, 215, 1871.  
*Hab.*—Texas.

**EUDAMUS**, Swainson.**Group I.**

587. **Electra**, Lintn., Can. Ent., 13, 63, 1881.  
*Hab.*—Hamilton, Ont. (by Moffat)
588. **Pylades**, Scud., Pr. Bost., Soc. N. Hist., 13, 207, 1870; Fern.,  
 But. Me., 104, 1884 \*.  
*Bathyllus*, Harr. (not Sm.-Abb.), 312, fig. 135, 1862.  
*Hab.*—N. E. to Fla.; Dak.; Col.; Cala.; Ont.; Queb.
589. **Nevada**, Scud., Syst. Rev., 50, 1872; Lintn., Papilio, 1, 74,  
 1881.  
*Hab.*—Texas; Ariz.; Col.
590. **Bathyllus**, Sm.-Abb., pl. 22, 1797 \*; Bd.-Lec., pl. 74, 1833  
 \*; Morr., 106, 1862.  
*Hab.*—W. Va. to Fla.; Kans.; N. Mex.
591. **Moschus**, Edw., Papilio, 2, 141, 1882.  
*Hab.*—Ariz.
592. **Hippalus**, Edw., l. c., 2, 27, 1882.  
*Hab.*—Ariz.
593. **Drusius**, Edw., Can. Ent., 15, 211, 1883.  
*Hab.*—So. Ariz.
594. **Epigena**, Butl., Tr. E. Soc. Lond., 4, 493, 1870; id., Lep. Exot.,  
 65, pl. 25, fig. 6, 1870; Lintn., Ent. Cont., 4, 69, 1878; Edw.,  
 Papilio, 2, 141, 1882.  
*Hab.*—Texas; Ariz.
595. **Lycidas**, Sm.-Abb., pl. 20, 1797 \*; Bd.-Lec., pl. 71, 1833 \*;  
 Morr., 106, 1862.  
*Lyciades*, Hüb., Zutr. Ex. Schmett., figs. 621, 622, 1832.  
*Hab.*—Mass. to Gulf Mex.; Miss. Valley.
596. **Cellus**, Bd.-Lec., pl. 73, 1833 \*; Morr., 105, 1862.  
*Festus*, Hüb., Zutr. Ex. Schmett., figs. 907, 908, 1837.  
*Hab.*—W. Va. to Gulf Mex.; Texas; Ariz.

**Group II.**

597. † **Hesus**, West.-Hew., Gen. Di. Lep., pl. 78, 1852.  
*Hab.*—Texas.

598. **Zestos**, Hüb., Zutr. Ex. Schmett., figs. 615, 616, 1832.

*Oberon*, Worth., Papilio, 1, 132, 1881.

*Tityrus*, var. *Oberon*, Aaron, Papilio, 4, 26, 1884.

*Hab.*—Fla.; Sanford, Marco Isld.

599. **Tityrus**, Fab., Syst. Ent., 532, 1875; Sm.-Abb., pl. 19, 1797

✱; Bd.-Lec., pl. 72, 1833 ✱; Fitch, 5th Rep. N. Y. Agr. Soc., 1859, 152 ✱; Morr., 112, 1862; Harr., 310, figs. 133, 134, and pl. 5, fig. 1, 1862 ✱.

*Hab.*—U. S. generally; Br. Am.; Ont.; Queb.

#### Group III.

600. **Proteus**, Linn., Syst. Nat., 1, 2, 794, 1767; Sm.-Abb., pl. 18,

1797 ✱; Bd.-Lec., pl. 69, 1833 ✱; Morr., 106, 1862; Chapm., Can. Ent., 11, 193, 1879 ✱.

*Hab.*—South. St.; occasl. N. Y.

601. **Simplicius**, Stoll, Supplt. Cram., pl. 39, figs. 6, 6 E, 1791.

*Hab.*—Texas; Ariz.

602. **Albofasciatus**, Hew., Desc. Hesp., Pt. 2, No. 2, 1867.

*Hab.*—Texas; Ariz.

#### Group IV.

603. **Dorus**, Edw., Papilio, 2, 140, 1882.

*Hab.*—So. Ariz.

#### ERYCIDES, Westwood.

604. † **Urania**, West.-Hew., Gen. Di. Lep., 510, pl. 79, 1852.

*Hab.*—Texas.

605. † **Texana**, Scud., Syst. Rev., 47, 1872.

*Hab.*—Texas.

606. † **Sanguinea**, Scud., l. c., 47, 1872.

*Hab.*—Texas.

607. **Batabano**, Lef., Sagr., Hist. Cuba, 7, 264, pl. 1, figs. 4, 5, 1867.

*Mancinus*, Herr.-Schaeff., Corr. Regensb., 16, 624, 1856.

*Okeechobee*, Worth., Papilio, 1, 133, 1881.

*Hab.*—Fla.; Cuba.

608. **Amyntas**, Fab., Ent., 533, 1775.

*Savignyi*, Latr., Enc. Meth., 9, 741, 1823.

*Hab.*—Key West, Fla.

**PYRRHOPYGA**, Westwood.

609. **Araxes**, Hew., Desc. Hesp., Pt. 2, No. 3, 1867; Edw., *Papilio*, 2, 142, 1882.

*Hab*—Ariz.

**MEGATHYMUS**, Riley.

610. **Yuccæ**, Bd.-Lec., pl. 70, 1833 \*; Riley, Tr. Ac. Sci. St. Louis, 323-344, 1876, id., 8th Mo. Ent. Rep., 169, 1876; id., 9th Mo. Ent. Rep., 129, 1877 \*.

*Hab*.—South. St.; N. Mex.; Ariz.

var. **COLORADENSIS**, Riley, Tr. Ac. Sci. St. Louis, 3, 566-568, 1877.

*Hab*.—Col.

611. **Cofaqui**, Str., Pr. Ac. N. Sci. Phil., 1876, 148 ♀ \*.

*Hab*.—Fla.; Col.

612. **Neumoegenii**, Edw., *Papilio*, 2, 27, 1882.

*Hab*.—Ariz.

Species at some time accredited to the North American fauna, but omitted in this Catalogue for want of authentication:

**Papilio Zonaria**, Butl., Ent. Mo. Mag., 5, 270, 1869; Bd.-Lec., 11, pl. 3, 1833.

*Sinon*, Cram. (not Fab.), 4, pl. 317, figs. C, D, 1782.

“ **Mylotes**, Bates, Tr. E. Soc. Lond., 3, 5, 346, 1861.

“ **Devilliersii**, Godt., Enc. Meth., 9, 810, 1823; Bd.-Lec., 36, pl. 14, 1833.

**Leptalis Melite**, Linn., Syst. Nat., 2, 755, 1767.

**Neophasia Terlooii**, Behr, Tr. A. E. Soc., 2, 304, 1869 (Mexican).

**Callidryas Cipris**, Fab., Ent. Syst., 3, 212, 1793.

**Gonepteryx Maerula**, Fab. Syst. Ent., 479, 1775; Bd.-Lec., 71, pl. 23, 1833.

“ **Clorinde**, Godt., Enc. Meth., 9, 813, 1823.

**Terias Elathea**, Cram., 2, pl. 99, 1779.

**Midea**, Mén., Nouv. Mém. Soc. Imp. Nat. Mosc., 3, pl. 2, 1834.

“ **Palmyra**, Poey, Mem. Nat. Hist. Cuba, 1, 249, pl. 24, 1851.

**Ceratinia Lycaste**, Fab., Ent. Syst., 3, 161, 1793.

**Mechanitis Californica**, Reak., Pr. E. Soc. Phil., 5, 223, 1865.

**Ithomia Diaphana**, Dru., 2, pl. 7, 1773.

**Ithomia Phono**, Gey., in Hüb., Zutr. Ex. Schmiett., figs. 987, 988, 1837.

**Ageronia Feronia**, Linn., Mus. Lud. Uhl., 283, 1764.

“ **Fornax**, Hüb., Samml. Ex. Schmiett., 1, 1816–1824.

**Argynnis Astarte**, Doubl.-Hew., Gen. Di. Lep., pl. 23, 1848.

“ **Nenoquis**, Reak., Pr. Ac. N. Sci. Phil., 1866, 247.

“ **Morrisii**, Reak., l. c., 1866, 245.

**Collina**, Bd., Lep. de la Cala., 54, 1869 (Mexican).

**Melitæa Theona**, Mén., Cat. Ac. Petr. Lep., 1, 86, pl. 2, 1855.

**Phyciodes Ismeria**, Bd.-Lec., 168, pl. 46, 1833.

**Eresia Hermas**, Hew., Ex. But., 3, pl. 5, Eresia, 1864.

**Grapta C Album**, Linn., Syst. Nat., 2, 778, 1867.

“ **V Album**, Esp., Eur. Schmiett., 2, pl. 52, 1780.

**Callicore Clymena**, Cram., 1, pl. 24, figs. E, F, 1775.

**Smyrna Karwinski**, Hüb., Samml. Ex. Schmiett., 1, 1816–1824.

**Victorina Steneles**, Linn., Mus. Lud. Ulr., 218, 1764.

**Apatura Idyja**, Hüb., Samml. Ex. Schmiett., 1, 1816–1824.

**Megistanis Acheronta**, Fab. Syst. Ent., 501, 1775.

**Aganisthos Orion**, Fab. Syst. Ent., 485, 1775.

**Libythea Motya**, Bd.-Lec., pl. 64, 1833.

**Eumenia Minijas**, Hüb., Samml. Ex. Schmiett., 1, 1806–1816.

**Thecla Liparops**, Bd.-Lec., 99, pl. 64, 1833.

**Lycæna Tejua**, Reak., Pr. Ac. N. Sci. Phil., 1866, 245.

“ **Isola**, Reak., l. c., 1866, 332.

**Pamphila Comma**, Linn., Syst. Nat., 1, 2, 793, 1767.

“ **Sylvanus**, Esp., Eur. Schmiett., 1, pl. 36, 1777.

“ **Bulenta**, Bd.-Lec., pl. 67, 1883.

**Thanaos Tages**, Linn., Faun. Suec., 286, 1761.

Described as species by Seudder-Burgess, solely from the genitalia, Pr. Bost. Soc. N. Hist., 13, 296, 1870, and not recognizable.

**Nisoniades Ennius.**

“ **Horatius.**

“ **Virgilius.**

“ **Terentius.**

“ **Ovidius.**

**Nisoniades Tibullus.**

“ **Propertius.**

“ **Plautus.**

“ **Funeralis.**



## ADDENDA.

13. **Troilus**, local. Fort Macleod, N. W. Terr., by Geddes.
15. **Turnus**, form **GLAUCUS**, Fort Macleod, N. W. Terr., by Geddes.
19. **Pilumnus**, desc. l. and chr., Wm. Schaus, Papilio, 4, 100, 1884.
43. **Olympia**, loc. Summit, N. W. Terr., auct. Geddes.
53. **Genutia**, loc. southeast Texas, by S. F. Aaron.
59. **Fantasia**, loc.       "       "       "
57. **Agarithe**, loc. So. Ill., auct. French.
60. **Lanice**, Lintn. desc. Papilio, 4, 138, 1884.
63. **C. Meadii**, loc. N. W. Terr., by Geddes.
105. **Leto**, loc.       "       "       "
127. **A. Nevadensis**, Calgary, N. W. Terr., by Geddes.
134. **Artonis**, loc. Koutainai,       "       "       "
154. **Claudia**, loc. McLean,       "       "       by Bean.
161. **Nubigena**, loc. Crow's Nest,       "       "       by Geddes.
169. **Palla**, loc. Col. by David Bruce.
173. **Harrisii**, loc. Col. by David Bruce.
174. **Ulrica**, loc. southeast Texas, by S. F. Aaron.
181. **Thekla**, loc.       "       "       "
186. **Nycteis**, loc. Edmonton, N. W. Terr. by Geddes.
187. **Carlota**, loc. Brandon,       "       "       "
194. **Camillus**, loc.       "       "       "       "
200. **Punctata**, loc. southeast Texas, by S. F. Aaron.
226. **Coenia**, loc. McLean, N. W. Terr., by Bean.
242. **L. Lorquini**, loc. Crow's Nest, N. W. Terr., by Geddes.
250. **Cocles**, Lintn. desc. Papilio, 4, 141, 1884,
255. **N. Gemma**, loc. southeast Texas, by S. F. Aaron.
278. **Magdalena**, loc. Park Co., Col., 10,000 feet elevation, by Bruce.
290. **S. Silvestris**, loc. Garnett Rancho, N. W. Terr., by Geddes,
304. **Taygete**, loc. Park Co., Col., above timber, by Bruce.



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